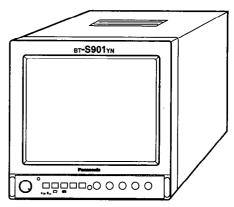
Service Manua Simplified

Color Video Monitor

BT-S901YN

Chassis No. KMX-F903D



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Please file and use this simplified manual together with the service manual for Model No. BT-S901Y, Order No. KME9009164C1.

Specifications

Power Source

120 V AC, 50/60 Hz

Power Consumption

37 W

Maximum Ampere

0.75 A

Picture Tube

9 inches measured diagonally, 90-degree deflection

2¹/₂ inches round type, located on cabinet left

Speaker output

1.0 W(at 10 % distortion), 1.2 W(MAX) Impedance 16Ω

Television System

NTSC-M System (American TV Standard 525 line/60 field)

Operating Temperature

32 ~ 104 °F (0 ~ 40 °C)

Operating Humidity

20 ~ 80 % (non-condensing)

Design and specifications are subject to change without

Weight and dimensions shown are approximate.

Connection Terminals (Input/Output)

Line A

S-Video IN/OUT

: Y 1.0 Vp-p, C 0.3 Vp-p, High or 75Ω switchable, 4P Mini DIN type

Video IN/OUT

Audio IN/OUT

: 1.0 Vp-p \pm 10 %, High or 75 Ω

automatic, BNC type : $0.5 \text{ Vrms} \pm 10 \%$, $10 \text{k}\Omega$ (min.)

RCA phono type

Line B

Video IN/OUT

: 1.0 Vp-p \pm 10 %, High or 75 Ω

automatic, BNC type

Audio IN/OUT

: 0.5 Vrms \pm 10 %, 10k Ω (min.)

RCA phono type

External Sync IN/OUT

: 2.0 ~ 4.0 Vp-p (negative) High or 75Ω automatic, BNC type

Dimensions

Width: 825/32 inches (223 mm) Height: 9 inches (228.5 mm) Depth: 1211/16 inches (321.5 mm)

Weight

15.5 lbs (7.0 kg)

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AWARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J IN EFFECT AS OF DATE OF MANUFACTURE.

IMPORTANT SAFETY NOTICE

There are special components used in Panasonic Monitor sets which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-Radiation, shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Any unauthorized changes or modifications to this equipment would void the users authority to operate.

SAFETY PRECAUTIONS

General Guidelines

- It is advisable to insert an isolation transformer in the AC power line before servicing a hot chassis.
- When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. Before switching the power on, measure the resistance between B+ line and cold side chassis ground. Connect the "-" side of an ohmmeter to the B+ line, and the "+" side to chassis ground. Each line must have more resistance value than the specified one as follows:

B+ Line	Minimum Resistance
121V	140 Ω
27V	150 Ω
15V	150 Ω
12V	140 Ω

- When the set is not used for a long period of time, unplug the AC power cord plug from the AC line outlet.
- 6. Potentials, as high as 22.0±1kV, are present when the set is in operation. Operating the set without the rear cover involves in a dangerous electrical shock from the set power supply. Servicing must not be attempted by anyone who is not thoroughly familiar with the necessary precautions when working on high voltage equipment. Always discharge the anode of the picture tube to chassis ground before handling the picture tube.
- After servicing, make the following leakage current checks to prevent the customer from getting a dangerous electrical shock.

Leakage Current Cold Check

- 1. Unplug the AC power cord and short between the two prongs of the AC plug with a jumper wire.
- 2. Set the power switch of this set to ON position.
- 3. Measure the resistance value with an ohmmeter between the shorted AC plug and each exposed metallic part of the set cabinet such as screwheads, connectors, and control shafts. When the exposed metallic part has a return path to the chassis, the reading should be between $240k\Omega$ and $5.2M\Omega$. When the exposed metal part does not have a return path to the chassis, the reading must be infinity.

Leakage Current Hot Check (See Fig. 1)

- Plug the AC power cord directly into the AC line outlet. Do not use an isolation transformer for this check.
- 2. Connect a $1.5k\Omega$ 10 watt resistor in parallel with a 0.15pF capacitor between each exposed metallic part of the set and an earth ground such as a water pipe.
- 3. Use an AC voltage meter with $1k\Omega/volt$ or more sensitivity to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. The potential at any point should not exceed 0.75Vrms. A leakage current tester (Simpson Model 229 or the equivalent) may be used to make the hot checks. Leakage current must not exceed 500µA. If a measurement is outside of the specified limits, there is a possibility of a shock hazard, and the monitor should be repaired and rechecked before it is returned to the customer

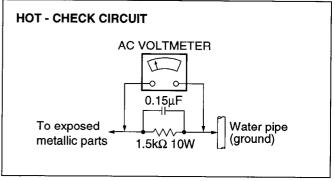


Fig. 1

X-Radiation

WARNING:

- 1. The potential sources of X-Radiation in the monitor set are the high voltage section and picture tube.
- When using a picture tube test jig for service, make sure that the jig is capable of handling 22.0kV without causing X-Radiation.

Note: It is important to use an accurate, periodically calibrated high voltage meter.

- 1. Turn Bright and Contrast controls fully counterclockwise.
- 2. Set SERVICE switch to SERVICE position.
- 3. Measure the high voltage. The high voltage meter (electrostatic type) reading should indicate 22.0kV±1.0kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-radiation possibility, it is essential to use the specified picture tube.

HORIZONTAL OSC. DISABLE CIRCUIT TEST

SERVICE WARNING: This test must be made as a final check before the monitor is returned to the customer after repairs are made.

- 1. With rear cover removed, supply nominal 120 V AC to the monitor and turn on power switch.
- Received a monoscope pattern signal and adjust user controls to normal position.
- 3. Turn off the power switch.
- Connect 5kΩ control VR with its resistance maximum between TP92 and TP93.
- 5. Turn on the power switch again.
- 6. Turn the $5k\Omega$ control VR slowly to decrease its resistance.
- 7. Confirm that the picture falls out of horizontal sync.
- If the tset fails, Horizontal Osc. Disable Circuit is not operating and must be repaired.
 Refer to the Horizontal Osc. Disable Circuit Repair Procedure.

HORIZONTAL OSC. DISABLE CIRCUIT REPAIR PROCEDURE

- Connect a DC voltmeter between the cathode of D510 and chasis ground of the main circuit board If approximately 21V is not present on the cathode of D510, find the cause. Check R529, D510 and C525.
- 2) Connect a DC voltmeter between the cathode of D512 and chassis ground of the main circuit board. If approximately 12V is not present on the cathode of D512, find the cause. Check R524, R523 and D511.
- Repeat step 2) procedure. If approximately 12V is not present on the cathode, Check D512, R522, Q504, R521 and IC401.
- 4) Carefully check above specified parts, and related circuits and parts. When the circuit is repaired, try the Horizontal Osc. Disable Circuit Test again.

HORIZONTAL OSC. DISABLE CIRCUIT EXPLANATION

- Under normal operating conditions, zener diode D512 is CUT OFF since its breakdown voltage is not reached.
- When the amplitude of the pulse applied to diode D510 increase, the cathode voltage of zener diode D512 rises, and D512 conducts.
- The conduction of D512 increase the base voltage of Q504 and causes it to conduct.
- 4. This causes the pin ③ voltage of IC401 to decrease. As a result the horizontal oscillator frequency goes higher and the picture on the screen falls out of horizontal sync.

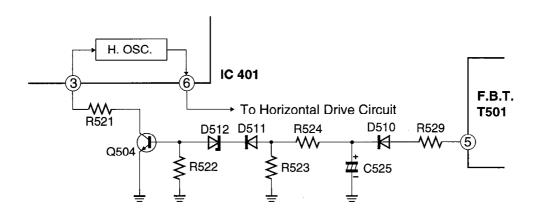


Fig. 2

ADJUSTMENTS

UNDERSCAN V.SIZE ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push UNDERSCAN switch on the front panel.
- 3. Adjust U.S V-SIZE control (R411) until picture height becomes 6 mm ± 1 mm shorter than picture tube screen at top and bottom as shown in figure 3.
- If the picture is shifted upper or lower, adjust V-POSITION control (R418).

UNDERSCAN H.SIZE ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push UNDERSCAN switch on the front panel.
- Adjust U.S H-SIZE control (R566) until picture width becomes 4 mm ± 1 mm shorter than picture tube screen at both sides as shown in figure 3.
- 4. If the picture is shifted left or right, adjust H-CENTER control (R520).

4mm±1mm 4mm±1mm 6mm±1mm

Figure 3

ALIGNMENTS

SUB-CONTRAST ALIGNMENT

- Apply a studio color bar signal. Input signal should be 1.0 Vp-p. (video level 0.7 Vp-p, sync level 0.3 Vp-p).
- 2. Set BRIGHT (R350) and CONTRAST (R344) controls to center position(click point).
- 3. Set COLOR control (R613) fully counterclockwise.
- 4. Connect an oscilloscope to TP48 on C-board.
- Adjust SUB-CONTRAST control (R327) to obtain 0.9 Vp-p from white level to black level.(See figure 4)

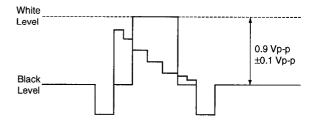


Figure 4

Replacement parts list

IMPORTANT SAFETY NOTICE

Components identified by the International symbol \triangle have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 <u>C</u> 100KOHM, <u>J,</u> 1/4W

TYPE

ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F: ±1%
F : Fuse	G: ±2%
M : Metal Oxide	J: ±5%
Metal Film	K: ±10%
S : Solid	M: ±20%
W · Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF <u>C</u> 0.01PF, <u>Z</u>, 50V

TYPE

ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic E : Electrolytic P : Polyester PP: Polypropylene T : Tantalum	C: ±0.25 pF D: ±0.5 pF F: ±1 pF J: ±5% K: ±10% L: ±15% M: ±20% P: +100%, -0% Z: +80%, -20%

Note: For G O of Ref. No., not indicate illustration of it part on "MECHANICAL PARTS LOCATION" of BT-S901Y Service Manual.

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Δ Δ Δ	M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M14 M16 M17 M18 M19 M20 M21 M22 M23 M24 M25 M31	MECANICAL PAF A22JWG098X TAST66C-8615 TXALY85375FA EVVGU5F25B14 TXFKA99MYPZ PAKU330300 TKK139208-1 PAKK358201-1 TTEA0008 TBX1353500 TLK159025N PAMX35902 TUC24557-1 PAJB356002 TBX2783100 TMX13935-1 TSXA114 TMM14416 PAKS35301 TBL173302 TBMD301 TJS169070	SPEAKER DEFLECTION YOKE CONTROL 10KOHMB TOP CABINET REAR COVER HANDLE COVER ESCUTCHEON COVER ESCUTCHEON COVER COVER	B1 B2 B5 B6 B7 B8 B10 B11 B12 G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12 G13 G14 G15	XTB4+15AFZ XTW3+6LFZ THE415-2 XTV3+12G THW40807-9 THN1948-2 XTN3+6FZ XTW3+8L XYA4+EF8 PAPD351009-1 PAPD352009-1 PAPD352010-1 PAPD352010-1 PAQF35237-3 PAQF37212 TES202-1 TJC6319 TMM13902 TMM81416 TPCA63701 TPE114115-1 TQF57277 TQF86202 TQZB664	SCREW TAPPING SCREW SCREW SCREW WASHER NUT TAPPING SCREW TAPPING SCREW SCREW CUSHION (TOP FRONT) CUSHION (TOP FRONT) CUSHION (BOTTOM FRONT) CUSHION (BOTTOM REAR) CAUTION LABEL CAUTION LABEL SPRING FUSE HOLDER, LARGE SPACER CORD BAND (SMALL) PACKING CASE SET COVER LABEL LABEL INSTRUCTION BOOK
	M33 M34 U1 U2 U4 U5 U6 U7	TMM15511 TMM6428-1 TMM16452 TMM15412-1 TMM13497 TMM6434 TMM6463-1		IC201 IC401 IC402 IC501 IC502 IC601	AN5265 AN5436N AN5515X MC14503BCP UPC78M12AHF AN5316N	LINEAR IC LINEAR IC LINEAR IC LINEAR IC IC LINEAR IC LINEAR IC

	Ref. No.	Part No.	Description		Ref. No.	Part No.	Description
		TRANSISTORS	7		D506	AU01Z	DIODE
					D507	TVSES1	DIODE
	Q201	2SC3311A	TRANSISTOR	İ	D508 D509	TVSRGP10J MA165	DIODE
	Q202	2SC3311A	TRANSISTOR		D509	TVSRGP10J	DIODE
	Q308	2SA1309A	TRANSISTOR		D511	MA27WA	DIODE
	Q351	2SC1473QNC	TRANSISTOR		D512	TV\$RD12EBM	ZENER DIODE
	Q352 Q353	2SC1473QNC	TRANSISTOR	_ ,	D514	MA165	DIODE
	Q371	2SC1473QNC 2SC3311A	TRANSISTOR TRANSISTOR		D515	MA165	DIODE
1 1	Q372	2SC3311A	TRANSISTOR		D516	MA165	DIODE
	Q373	2SC3311A	TRANSISTOR		D517	MA165	DIODE
	Q374	2SC3311A	TRANSISTOR		D518	MA165	DIODE
	Q375	2SC3311A	TRANSISTOR		D520 D524	MA27WA MA165	DIODE
	Q380	2SC3311A	TRANSISTOR		D551	MA165	DIODE
1	Q401	2SC1383R	TRANSISTOR	1	D552	RD9.1ESAB2	ZENER DIODE
1	Q402	2SA1309A	TRANSISTOR		D553	MA165	DIODE
	Q403	2SC3311A	TRANSISTOR		D554	RD5.1ESAB2	ZENER DIODE
	Q501 Q502	2SC1473A 2SD1439	TRANSISTOR TRANSISTOR		D601	MA165	DIODE
	Q502 Q504	2SC3311A	TRANSISTOR		D602	MA165	DIODE
	Q505	2SC3311A	TRANSISTOR	Δ	D801	TVSRM10B	DIODE
1 1	Q506	2SC3311A	TRANSISTOR	Δ	D802	TVSRM10B	DIODE
	Q507	2SC3311A	TRANSISTOR		D803	TVSRM10B	DIODE
	Q508	2SB774	TRANSISTOR		D804	TVSRM10B	DIODE
	Q509	2SA1309A	TRANSISTOR	ا ۾ ا	D805	MA171	DIODE
	Q510	2SD889	TRANSISTOR		D806 D808	MA1068L TVSES1Z	ZENER DIODE DIODE
	Q511	2SA1309A	TRANSISTOR		D809	IN4003	DIODE
l i	Q512	2SA1309A	TRANSISTOR		D810	TVSRGP10J	DIODE
	Q513	2SD1266	TRANSISTOR		D811	ERB44-08	DIODE
	Q514	2SC3311A	TRANSISTOR		D812	TVSRGP10J	DIODE
1	Q515 Q551	2SD889 2SA1309A	TRANSISTOR TRANSISTOR		D813	TVSSR2KN	DIODE
1 1	Q602	2SA1309A 2SA1309A	TRANSISTOR	⚠	D814	ERPZ4B0M100B	POSISTOR
	Q603	2SA1309A	TRANSISTOR		D815	LN38GP	LED (GREEN)
	Q610	2SC3311A	TRANSISTOR		D816	TVSRGP10J	DIODE
	Q611	2SC3311A	TRANSISTOR		D817	P6KE130A	DIODE
	Q801	2SC3872-LS	TRANSISTOR		D3001 D3002	MA4056M MA165	ZENER DIODE DIODE
	Q802	2SB1322A	TRANSISTOR		D3002 D3003	MA4056M	ZENER DIODE
	Q803	2SD965	TRANSISTOR		D3004	MA165	DIODE
	Q804	2SC3311A	TRANSISTOR	li	D3005	MA4056M	ZENER DIODE
	Q3001 Q3002	2SC3311A 2SC3311A	TRANSISTOR		D3006	MA165	DIODE
	Q3002 Q3003	2SC3311A 2SC3311A	TRANSISTOR TRANSISTOR		D3007	MA27T-B	DIODE
	Q3004	2SA1309A	TRANSISTOR	li	D3008	MA4056M	ZENER DIODE
	Q3005	2SA1309A	TRANSISTOR		D3009	MA165	DIODE
	Q3007	2SC3311A	TRANSISTOR		D3010	MA165	DIODE
1	Q3008	2SC3311A	TRANSISTOR		D3011	MA4056M	ZENER DIODE
	Q3009	2SA1309A	TRANSISTOR		D3012	MA165	DIODE
						I]
		DIODES		ļ		COILS	
	D310	MA165	DIODE		L304	TLK817E	DELAY LINE
	D314	MA165	DIODE		L306	TLT470K266	PEAKING COIL
1 1	D315	MA165	DIODE		L371	EFDBN645B95G	DELAY LINE
	D401	TVSRD15EB1	ZENER DIODE		L372	EIK1EG024B	VIF COIL
	D402	MA165	DIODE	Δ	L502	ELH5L424	LINEARITY COIL
	D403	TVSEM1Z	DIODE		L504 L505	TLUABTA151K TLT100K991K	PEAKING COIL PEAKING COIL 10U
	D404	MA165	DIODE		L505	TLTAMSKI103K	PEAKING COIL 100
	D405	TVSRD24EB1	ZENER DIODE		L507	TLP13113E	CHOKE COIL
	D406	MA27TA	DIODE		L601	TLUABTA150K	PEAKING COIL
	D407 D408	MA165 MA165	DIODE DIODE		£603	TLT222K993G	PEAKING COIL
	D408 D409	MA165	DIODE		L801	ELF18D216	LINE FILTER
	D501	MA165	DIODE		L803	TSC928-4	CHOKE COIL
	D503	ES-01F	DIODE				
	D504	TVSRGP10J	DIODE				
	D505	MA167	DIODE				
-						l	

TRANSFORME	FLYBACK TRANS H.DRIVE TRANS. SW POWER TRANSFOR	R360 R361 R362 R363 R364	ERDS2TJ472 ERG1SJ153P ERG1SJ153P	C 4.7KOHM, J, 1/4W M 15KOHM, J, 1W
▲ T501 PALF34709F T502 TLH15412 ETS35K403A RESISTORS RESISTORS R201 ERJ8GEYJ472 R202 ERJ8GEYJ103 R203 ERJ8GEYJ103 R204 ERDS2TJ472 R204 ERDS2TJ472 R205 ERJ8GEYJ103 R206 ERJ8GEYJ103 R206 ERJ8GEYJ102 R207 ERJ8GEYJ102 R209 ERJ8GEYJ102 R210 ERJ8GEYJ182 R211 ERJ8GEYJ822 R211 ERJ8GEYJ822 R213 ERJ8GEYJ273 R214 ERJ8GEYJ272 R218 ERJ8GEYJ272 R215 ERDS2TJ272 R218 ERJ8GEYJ272 R219 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R312 ERJ8GEYJ272 R326 ERJ8GEYJ272 R324 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 <	FLYBACK TRANS H.DRIVE TRANS. SW POWER TRANSFOR	R362 R363	i	M 15KOHM, J, 1W
T502	H.DRIVE TRANS. SW POWER TRANSFOR	R363	ERG1SJ153P	
T502 TLH15412	H.DRIVE TRANS. SW POWER TRANSFOR	1 1	1	M 15KOHM, J, 1W
№ T801 ETS35K403A RESISTORS RESISTORS R201 ERJ8GEYJ472 R202 ERJ8GEYJ103 R203 ERJ8GEYJ103 R204 ERDS2TJ472 R205 ERJ8GEYJ103 R206 ERJ8GEYJ104 R208 ERDS2TJ102 R209 ERJ8GEYJ102 R210 ERJ8GEYJ821 R211 ERJ8GEYJ821 R212 ERJ8GEYJ821 R213 ERJ8GEYJ821 R214 ERJ8GEYJ273 R215 ERDS2TJ272 R218 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R313 ERDS2TJ221 R320 ERJ8GEYJ272 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ172 R326 ERDS2TJ101 R337 EVMEASA00B		I R364	ERG1SJ153P	M 15KOHM, J, 1W
R201 ERJ8GEYJ472 R202 ERJ8GEYJ103 R203 ERJ8GEYJ103 R204 ERDS2TJ472 R205 ERJ8GEYJ103 R206 ERJ8GEYJ103 R207 ERJ8GEYJ104 R208 ERDS2TJ102 R209 ERJ8GEYJ102 R210 ERJ8GEYJ182 R211 ERJ8GEYJ821 R212 ERJ8GEYJ4R7 R213 ERJ8GEYJ4R7 R213 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R310 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R313 ERDS2TJ391 R314 ERDS2TJ391 R315 ERDS2TJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R327 ERJ8GEYJ272 R328 ERJ8GEYJ272 R329 ERJ8GEYJ272 R320 ERJ8GEYJ272 R321 ERJ8GEYJ272 R322 ERJ8GEYJ272 R323 ERJ8GEYJ391 R314 ERDS2TJ391 R315 ERDS2TJ391 R316 ERDS2TJ391 R317 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA0B1 R331 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ101 R349 ERDS2TJ333 R340 ERJ8GEYJ154 R341 ERDS2TJ361 R341 ERDS2TJ361 R341 ERDS2TJ361 R342 ERDS2TJ102 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ102		l Doce	ERC14GK272	S 2.7KOHM, J, 1/4W S 2.7KOHM, J, 1/4W
R201 ERJ8GEYJ472 R202 ERJ8GEYJ103 R203 ERJ8GEYJ103 R204 ERDS2TJ472 R205 ERJ8GEYJ103 R206 ERJ8GEYJ103 R207 ERJ8GEYJ104 R208 ERDS2TJ102 R209 ERJ8GEYJ102 R210 ERJ8GEYJ182 R211 ERJ8GEYJ821 R212 ERJ8GEYJ4R7 R213 ERJ8GEYJ4R7 R213 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R310 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R313 ERDS2TJ391 R314 ERDS2TJ391 R315 ERDS2TJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R326 ERJ8GEYJ272 R327 ERJ8GEYJ272 R328 ERJ8GEYJ272 R329 ERJ8GEYJ272 R320 ERJ8GEYJ272 R321 ERJ8GEYJ272 R322 ERJ8GEYJ272 R323 ERJ8GEYJ391 R314 ERDS2TJ391 R315 ERDS2TJ391 R316 ERDS2TJ391 R317 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA0B1 R331 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ101 R349 ERDS2TJ333 R340 ERJ8GEYJ154 R341 ERDS2TJ361 R341 ERDS2TJ361 R341 ERDS2TJ361 R342 ERDS2TJ102 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ102		R365 R366	ERC14GK272 ERC14GK272	S 2.7KOHM, J, 1/4W S 2.7KOHM, J, 1/4W
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R213 ERJ8GEYJ561 R214 ERJ8GEYJ822 R215 ERDS2TJ272 R218 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R310 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ154 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ361 R342 ERJ8GEYJ152 R343 ERJ8GEYJ152 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ102	M 820 OHM, J, 1/8W	R383 R384	ERDS2TJ331 ERJ8GEYJ102	C 330 OHM, J, 1/4W M 1KOHM, J, 1/8W
R214 ERJ8GEYJ822 R215 ERDS2TJ272 R218 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ222 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ153 R340 ERJ8GEYJ153 R341 ERDS2TJ333 R340 ERJ8GEYJ561 R342 ERDS2TJ102 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R351 EVN65UA00B6 R352 ERDS2TJ102	M 4.7 OHM, J, 1/8W	R385	ERJ8GEYJ152	M 1.5KOHM, J, 1/8W
R215 ERDS2TJ272 R218 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R210 ERQ12AJ100P R222 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B R331 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B R331 EVMEASA00B R332 ERJ8GEYJ102 R333 EROS2CKF100 R334 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R338 ERJ8GEYJ561 R339 ERDS2TJ333 R340 ERJ8GEYJ561 R341 ERDS2TJ561 R342 ERDS2TJ102 R343 ERJ8GEYJ562 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ562 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 560 OHM, J, 1/8W	R386	ERDS2TJ102	C 1KOHM, J, 1/4W
R218 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R219 ERJ8GEYJ273 R220 ERQ12AJ100P R222 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B R331 EVMEASA00B R332 ERJ8GEYJ102 R333 EROS2CKF152 R333 EROS2CKF152 R333 ERJ8GEYJ5561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R339 ERDS2TJ561 R339 ERDS2TJ561 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ152 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ102 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 8.2KOHM, J, 1/8W	R391	ERJ8GEYJ472	M 4.7KOHM, J, 1/8W
R219 ERJ8GEYJ273 A R220 ERQ12AJ100P R222 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1562 R336 ERDS2CKF100 R334 ERJ8GEYJ561 R336 ERJ8GEYJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ153 R341 ERDS2TJ333 R340 ERJ8GEYJ152 R343 ERJ8GEYJ152 R343 ERJ8GEYJ152 R344 EVUE30E2561 R345 ERDS2TJ102 R346 ERJ8GEYJ1522 R346	C 2.7KOHM, J, 1/4W	R401	ERG1SJ561P	M 560 OHM, J, 1W
№ R220 ERQ12AJ100P R222 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2CTJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ273 R338 ERJ8GEYJ153 R341 ERDS2TJ333 R342 ERDS2TJ122 R343 ERJ8GEYJ5561 R344 EVUE30E2561 R345 ERDS2TJ122 R346 ERJ8GEYJ252	M 27KOHM, J, 1/8W M 27KOHM, J, 1/8W	R402	ERJ8GEYJ392	M 3.9KOHM, J, 1/8W
R222 ERJ8GEYJ272 R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ562 R339 ERDS2TJ561 R337 ERJ8GEYJ563 R341 ERDS2TJ561 R342 ERDS2TJ164 R342 ERDS2TJ122 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ102 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 27KOHM, J, 1/8W F 10 OHM, J, 1/2W	R403	ERJ8GEYJ562	M 5.6KOHM, J, 1/8W
R310 ERDS2TJ391 R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ822 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ562 R338 ERJ8GEYJ563 R340 ERJ8GEYJ563 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ153 R341 ERDS2TJ162 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 2.7KOHM, J, 1/8W	R404	ERJ8GEYJ103	M 10KOHM, J, 1/8W
R311 ERDS2TJ391 R312 ERDS2TJ391 R318 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ822 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ562 R339 ERDS2TJ561 R337 ERJ8GEYJ563 R340 ERJ8GEYJ563 R341 ERDS2TJ162 R342 ERDS2TJ161 R342 ERDS2TJ162 R343 ERJ8GEYJ561 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	C 390 OHM, J, 1/4W	R405	ERDS2TJ562	C 5.6KOHM, J, 1/4W
R312 ERDS2TJ391 R318 ERDS2TJ391 R318 ERDS2TJ221 R320 ERJ8GEYJ822 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ152 R335 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ562 R338 ERJ8GEYJ563 R340 ERJ8GEYJ563 R341 ERDS2TJ162 R342 ERDS2TJ161 R342 ERDS2TJ162 R343 ERJ8GEYJ561 R344 EVUE30E25B1 R345 ERDS2TJ1122 R346 ERJ8GEYJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	C 390 OHM, J, 1/4W	R406	ERDS2TJ153	C 15KOHM, J, 1/4W
R320 ERJ8GEYJ822 R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R339 ERDS2TJ561 R339 ERDS2TJ561 R340 ERJ8GEYJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ153 R341 ERDS2TJ161 R342 ERDS2TJ102 R343 ERJ8GEYJ222 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6	C 390 OHM, J, 1/4W	R407	ERDS2TJ472	C 4.7KOHM, J, 1/4W
R323 ERJ8GEYJ272 R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R338 ERJ8GEYJ561 R339 ERDS2TJ561 R339 ERDS2TJ561 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERJ8GEYJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6	C 220 OHM, J, 1/4W	R408 R409	ERJ8GEYJ101 ERJ8GEYJ101	M 100 OHM, J, 1/8W M 100 OHM, J, 1/8W
R324 ERJ8GEYJ272 R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B. R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ561 R339 ERDS2TJ333 R340 ERJ8GEYJ561 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 8.2KOHM, J, 1/8W	R410	EVND4AA00B32	CONTROL 300 OHMB
R325 ERJ8GEYJ272 R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1562 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERJ8GEYJ562 R339 ERDS2TJ333 R340 ERJ8GEYJ561 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 2.7KOHM, J, 1/8W	R411	EVND4AA00B32	CONTROL 300 OHMB
R326 ERDS2TJ101 R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1562 R336 ERDS2TJ561 R337 ERJ8GEYJ562 R338 ERDS2TJ561 R339 ERDS2TJ561 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6	M 2.7KOHM, J, 1/8W	△ R413	ERQ12AJ2R7P	F 2.70HM, 1/2W
R327 EVMEASA00B R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ273 R338 ERJ8GEYJ273 R338 ERJ8GEYJ273 R340 ERJ8GEYJ153 R341 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ122 R343 ERJ8GEYJ152 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 2.7KOHM, J, 1/8W	R416	ERJ8GEYJ561	M 560 OHM, J, 1/8W
R329 ERJ8GEYJ102 R330 EVND2AA03B1 R331 EVMEASA00B2 R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ1561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ273 R338 ERJ8GEYJ563 R340 ERJ8GEYJ561 R341 ERDS2TJ561 R342 ERDS2TJ161 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	C 100 OHM, J, 1/4W 3 CONTROL 1KOHMB	R417	EVUE20E25B14	CONTROL 10 OHMB
R330 EVND2AA03B1 R331 EVMEASA00B2 R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ561 R337 ERJ8GEYJ561 R337 ERJ8GEYJ563 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 1KOHM, J, 1/8W	R418	EVND4AA00B14	CONTROL 10KOHMB
R331 EVMEASA00B: R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ682 R341 ERDS2TJ151 R342 ERDS2TJ152 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	, ,	R419	ERDS2TJ153	C 15KOHM, J, 1/4W
R332 ERJ8GEYJ152 R333 EROS2CKF100 R334 ERJ8GEYJ154 R335 ERJ8GEYJ154 R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ152 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	I	R420	ERG1SJ101P	M 100 OHM, J, 1W
R334 ERJ8GEYJ154 R335 ERJ8GEYJ561 R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ1561 R342 ERDS2TJ152 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ102 R346 ERJ8GEYJ102 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 1.5KOHM, J, 1/8W	R421	ERG1ANJ471	M 470 OHM, J, 1W M 82 OHM, J, 1W
R335 ERJ8GEYJ562 R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ2682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ477 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	2 M 10KOHM, F, 1/4W	R422 R424	ERG1SJ820P ERDS2TJ562	M 82 OHM, J, 1W C 5.6KOHM, J, 1/4W
R336 ERDS2TJ561 R337 ERJ8GEYJ273 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 150KOHM, J, 1/8W	R425	ERJ8GEYJ222	M 2.2KOHM, J, 1/8W
R337 ERJ8GEYJ273 R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 5.6KOHM, J, 1/8W	R426	ERDS2TJ473	C 47KOHM, J, 1/4W
R338 ERJ8GEYJ682 R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	C 560 OHM, J, 1/4W	R427	ERDS2TJ472	C 4.7KOHM, J, 1/4W
R339 ERDS2TJ333 R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B8 R352 ERDS2TJ122	M 27KOHM, J, 1/8W	R428	EVND2AA03B24	CONTROL 20KOHMB
R340 ERJ8GEYJ153 R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B8 R352 ERDS2TJ122	M 6.8KOHM, J, 1/8W C 33KOHM, J, 1/4W	R429	ERJ8GEYJ103	M 10KOHM, J, 1/8W
R341 ERDS2TJ561 R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B8 R352 ERDS2TJ122	M 15KOHM, J, 1/8W	R430	ERDS2TJ223	C 22KOHM, J, 1/4W
R342 ERDS2TJ122 R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B8 R352 ERDS2TJ122	C 560 OHM, J, 1/4W	R431	ERDS2TJ222	C 2.2KOHM, J, 1/4W
R343 ERJ8GEYJ472 R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B8 R352 ERDS2TJ122	C 1.2KOHM, J, 1/4W	R434	ERJ8GEYJ473	M 47KOHM, J, 1/8W
R344 EVUE30E25B1 R345 ERDS2TJ122 R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122	M 4.7KOHM, J, 1/8W	R435	ERDS2TJ683	C 68KOHM, J, 1/4W C 1KOHM, J, 1/4W
R346 ERJ8GEYJ222 R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B6 R352 ERDS2TJ122		R437 R438	ERDS2TJ102 ERDS2TJ472	C 1KOHM, J, 1/4W C 4.7KOHM, J, 1/4W
R347 ERDS2TJ101 R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	C 1.2KOHM, J, 1/4W	△ R441	PASF31501	FUSE
R349 ERDS2TJ102 R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	M 2.2KOHM, J, 1/8W	R442	ERDS1TJ222	C 2.2KOHM, J, 1/2W
R350 EVUE30E25B1 R351 EVN65UA00B5 R352 ERDS2TJ122	C 100 OHM, J, 1/4W	R501	ERJ8GEYJ471	M 470 OHM, J, 1/8W
R351 EVN65UA00B5 R352 ERDS2TJ122	C 1KOHM, J, 1/4W	R503	ERDS2TJ682	C 6.8KOHM, J, 1/4W
R352 ERDS2TJ122	1	R504	ERDS2TJ564	C 560KOHM, J, 1/4W
i	CONTROL 5KOHMB C 1.2KOHM, J, 1/4W	R505	ERDS2TJ221	C 220 OHM, J, 1/4W
R353 EVN65UA00B5		R507	ERDS2TJ562	C 5.6KOHM, J, 1/4W
R354 ERDS2TJ122	C 1.2KOHM, J, 1/4W	R508	ERDS2TJ562	C 5.6KOHM, J, 1/4W
R355 ERDS2TJ183	C 18KOHM, J, 1/4W	R509	ERJ8GEYJ103 ERJ8GEYJ222	M 10KOHM, J, 1/8W M 2.2KOHM, J, 1/8W
R356 EVN65UA00B1		R510 R511	ENJ8GEYJ222 EVND4AA00B23	CONTROL 2KOHMB
R357 EVN65UA00B1		R512	ERDS1TJ561	C 560 OHM, J, 1/2W
R358 ERDS2TJ471	C 470 OHM, J, 1/4W	R513	ERDS110301	C 560 OHM, J, 1/4W
R359 ERDS2TJ151	10 450 OUNA 1 47454	R514	ERDS2TJ271	C 270 OHM, J, 1/4W
	C 150 OHM, J, 1/4W			
	C 150 OHM, J, 1/4W			
	C 150 OHM, J, 1/4W			i

	Ref. No.	Part No.	Description		Ref. No.	Part No.		Description
	R515	ERG2ANJ122	M 1.2KOHM, J, 2W		R614	ERDS2TJ101	С	100 OHM, J, 1/4W
	R516	ERQ1AJP561S	F 560 OHM, J, 1W		R615	ERDS2TJ101	С	100 OHM, J, 1/4W
١. ا	R517	ERG2ANJ122	M 1.2KOHM, J, 2W		R616	ERJ8GEYJ105	M	1MOHM, J, 1/8W
Å	R518	ERQ1AJP561S	F 560 OHM, J, 1W		R617	ERDS2TJ474	C	470KOHM, J, 1/4W
Δ	R519	ERQ14AJ680P	F 68 OHM, J, 1/4W CONTROL 10K0HMB		R618 R620	ERDS2TJ473 ERDS2TJ473	C	47KOHM, J, 1/4W 47KOHM, J, 1/4W
	R520 R521	EVMJ6U10KB14 ERDS2TJ103	C 10KOHM, J, 1/4W		R622	ERJ8GEYJ332	М	3.3KOHM, J, 1/8W
Δ	R522	ERDS2TJ103	C 10KOHM, J, 1/4W		R623	ERDS2TJ103	С	10KOHM, J, 1/4W
	R523	ER0S2CKF2001	M 2KOHM, F, 1/4W		R624	ERJ8GEYJ563	м	56KOHM, J, 1/8W
$\overline{\Delta}$	R524	ER0S2CKF1271	M 1.27KOHM, F, 1/4W		R650	ERJ8GEYJ822	М	8.2KOHM, J, 1/8W
	R526	ERJ8GEYJ472	M 4.7KOHM, J, 1/8W		R651	ERJ8GEYJ393	М	39KOHM, J, 1/8W
	R527	ERDS2TJ392	C 3.9KOHM, J, 1/4W		R652	ERJ8GEYJ102	М	1KOHM, J, 1/8W
	R528	ERQ12HJ6R8	F 6.8 OHM, J, 1/2W		R653	ERJ8GEYJ101	М	100 OHM, J, 1/8W
Δ	R529	ERQ12AZJ1R0P	F 1.0 OHM, 1/2W		R654	ERDS2TJ822	C	8.2KOHM, J, 1/4W
	R530	ERQ12HJ1R0	F 1 OHM, J, 1/2W		R655	ERDS2TJ393	C W	39KOHM, J, 1/4W
	R531 R532	ERD25FJ1R0 ERDS2TJ223	C 1 OHM, J, 1/4W C 22KOHM, J, 1/4W		R801 R803	ERF3AK2R7 ERG1ANJ683H	M	2.7 OHM, 3W 68KOHM, J, 1W
	R533	ERDS21J223 ERD25FJ1R0	C 22ROHW, 3, 1/4W	Δ	R804	ER0S2CKF1431		1.43KOHM, F, 1/4W
	R541	ERJ8GEYJ102	M 1KOHM, J, 1/8W	<u>A</u>	R805	ER0S2CKF2001	м	2KOHM, F, 1/4W
	R542	ERDS2TJ471	C 470 OHM, J, 1/4W	$\overline{\mathbb{A}}$	R806	ERDS2TJ331	С	330 OHM, J, 1/4W
	R543	ERDS2TJ564	C 560KOHM, J, 1/4W	<u>A</u>	R807	EVND4AA00B14	co	NTROL 10KOHMB
	R544	ERDS2TJ392	C 3.9KOHM, J, 1/4W	Δ	R808	ER0S2CKF2261		2.26KOHM, F, 1/4W
	R545	ERDS2TJ102	C 1KOHM, J, 1/4W		R809	ERG1SJ331P	М	330 OHM, J, 1W
	R547	ERJ8GEYJ102	M 1KOHM, J, 1/8W		R810	ERG1SJ221P	М	220 OHM, J, 1W
	R548	ERJ8GEYJ562	M 5.6KOHM, J, 1/8W		R812	ERG1SJ271	М	270 OHM, J, 1W
	R549 R550	ERDS2TJ102 ERJ8GEYJ223	C 1KOHM, J, 1/4W M 22KOHM, J, 1/8W		R813 R814	ERG2ANJ330H ERX1ANJPR47S	M	33 OHM, J, 2W 0.47OHM, J, 1W
1	R551	ERJ8GEYJ392	M 3.9KOHM, J, 1/8W		R815	ERDS2TJ102	C	1KOHM, J, 1/4W
	R552	ERJ8GEYJ102	M 1KOHM, J, 1/8W		R816	ERDS2TJ102	c	1KOHM, J, 1/4W
	R554	ERDS2TJ823	C 82KOHM, J, 1/4W		R818	ERQ12HJ1R0	F	1 OHM, J, 1/2W
	R555	EVND2AA03B14	CONTROL 10KOHMB		R819	ERD25TJ152	C	1.5KOHM, J, 1/4W
	R556	ERDS2TJ153	C 15KOHM, J, 1/4W		R821	ERDS1TJ563	С	56KOHM, J, 1/2W
	R557	ERJ8GEYJ223	M 22KOHM, J, 1/8W	₾	R822	ERQ14AJ2R2P	F	2.2 OHM, J, 1/4W
	R558	ERDS2TJ472	C 4.7KOHM, J, 1/4W C 1KOHM, J, 1/4W		R823	ERJ8GEYJ562 ERJ8GEYJ101	M	5.6KOHM, J, 1/8W 100 OHM, J, 1/8W
	R559 R560	ERDS2TJ102 ERDS2TJ104	C 1KOHM, J, 1/4W C 100KOHM, J, 1/4W		R3001 R3002	ERJ8GEYJ822	M	100 OHM, J, 1/8W 8.2KOHM, J, 1/8W
	R561	ERJ8GEYJ103	M 10KOHM, J, 1/8W		R3003	ERJ8GEYJ393	м	39KOHM, J, 1/8W
	R562	ERJ8GEYJ104	M 100KOHM, J, 1/8W		R3004	ERJ8GEYJ101	М	100 OHM, J, 1/8W
	R563	ERJ8GEYJ103	M 10KOHM, J, 1/8W		R3005	ERJ8GEYJ822	М	8.2KOHM, J, 1/8W
	R564	ERJ8GEYJ473	M 47KOHM, J, 1/8W		R3006	ERJ8GEYJ393	М	39KOHM, J, 1/8W
	R565	ERDS2TJ473	C 47KOHM, J, 1/4W		R3007	ERJ8GEYJ102	М	1KOHM, J, 1/8W
	R566	EVND4AA00B24	CONTROL 20KOHMB		R3008	ERJ8GEYJ750	М	75 OHM, J, 1/8W
	R567	ERDS2TJ333	C 33KOHM, J, 1/4W		R3009	ERJ8GEYJ750	M M	75 OHM, J, 1/8W
	R568 R569	ERJ8GEYJ223 ERJ8GEYJ272	M 22KOHM, J, 1/8W M 2.7KOHM, J, 1/8W		R3010 R3011	ERJ8GEYJ750 ERJ8GEYJ562	M	75 OHM, J, 1/8W 5.6KOHM, J, 1/8W
	R570	ERD25TJ562	C 5.6KOHM, J, 1/4W		R3012	ERJ8GEYJ562	М	5.6KOHM, J, 1/8W
	R571	ERJ8GEYJ152	M 1.5KOHM, J, 1/8W		R3013	ERDS2TJ471	С	470 OHM, J, 1/4W
	R572	ERQ12HJ100	F 10 OHM, J, 1/2W		R3014	ERJ8GEYJ821	М	820 OHM, J, 1/8W
	R573	ERDS2TJ472	C 4.7KOHM, J, 1/4W		R3015	ERJ8GEYJ224	М	220KOHM, J, 1/8W
	R574	ERDS2TJ102	C 1KOHM, J, 1/4W		R3016	ERJ8GEYJ272	М	2.7KOHM, J, 1/8W
	R576	ERDS2TJ822	C 8.2KOHM, J, 1/4W		R3017	ERJ8GEYJ271	M	270 OHM, J, 1/8W
	R577 R578	ERDS2TJ103 ERDS2TJ102	C 10KOHM, J, 1/4W C 1KOHM, J, 1/4W		R3018 R3019	ERJ8GEYJ471 ERJ8GEYJ750	M	470 OHM, J, 1/8W 75 OHM, J, 1/8W
	R578 R579	ERJ8GEYJ223	M 22KOHM, J, 1/8W		R3020	ERJ8GEYJ101	M	100 OHM, J, 1/8W
	R580	ERDS2TJ223	C 22KOHM, J, 1/4W		R3021	ERJ8GEYJ822	м	8.2KOHM, J, 1/8W
	R581	ERDS2TJ274	C 270KOHM, J, 1/4W		R3022	ERJ8GEYJ393	М	39KOHM, J, 1/8W
	R601	ERJ8GEYJ561	M 560 OHM, J, 1/8W		R3023	ERJ8GEYJ102	М	1KOHM, J, 1/8W
	R602	ERJ8GEYJ331	M 330 OHM, J, 1/8W		R3024	ERJ8GEYJ101	М	100 OHM, J, 1/8W
	R603	ERJ8GEYJ152	M 1.5KOHM, J, 1/8W		R3025	ERJ8GEYJ822	M	8.2KOHM, J, 1/8W
	R604 R605	ERDS2TJ561 ERJ8GEYJ224	C 560 OHM, J, 1/4W M 220KOHM, J, 1/8W		R3026 R3027	ERJ8GEYJ393 ERJ8GEYJ750	M	39KOHM, J, 1/8W 75 OHM, J, 1/8W
	R606	ERDS2TJ104	C 100KOHM, J, 1/4W		R3027	ERJ8GEYJ101	M	75 OHM, J, 1/8W 100 OHM, J, 1/8W
	R607	EVND2AA03B14	CONTROL 10KOHMB		R3029	ERJ8GEYJ392	М	3.9KOHM, J, 1/8W
	R608	ERDS2TJ152	C 1.5KOHM, J, 1/4W		R3030	ERJ8GEYJ564	М	560 OHM, J, 1/8W
	R609	ERDS2TJ332	С 3.3КОНМ, Ј, 1/4W		R3031	ERJ8GEYJ102	М	1KOHM, J, 1/8W
	R610	ERDS2TJ153	C 15KOHM, J, 1/4W		R3032	ERJ8GEYJ331	М	330 OHM, J, 1/8W
	R611	EVUE20E25B14	CONTROL 10KOHMB					
	R612	ERJ8GEYJ273	M 27KOHM, J, 1/8W					
	R613	EVUE20E25B14	CONTROL 10 OHMB					
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Ref. No.	Part No.		Des	cripti	ion	\perp	Ref. No.	Part No.	\perp	Des	cripti	ion
	CAPACITORS	7				Δ		ECKD3D102JBN	С	1000PF,	J,	2KV
<u> </u>		_				♠		ECKD3D102JBN	C	1000PF,	J,	2KV
C201	ECA1HM010	E	1UF,		50V			ECKD3D152JBN ECQM4822JZ	C	1500PF, 8200PF.	J,	2KV
C202	ECA1HM010	E	1UF,		50V			ECQF2H184JZA	P	0.18UF,	J, J,	400V 200V
C203 C204	ECA1HM100 ECA1HM4R7G	E	10UF, 4.7UF,		50V 50V		1	ECA2EM3R3	E	3.3UF,	u,	250V
C206	ECA1HM100	E	10UF,		50V 50V		C522	ECA2CM101E	E	100UF,		160V
C207	ECUX1H103ZFX	c	0.01UF,	Z,	50V		C523	ECA1VM221G	E	220UF,		35V
C208	ECA1HM2R2	E	2.2UF,	_,	50V	1.	C524	ECA1VM331	E	330UF,		35V
C209	ECUX1H104ZFW	C	0.1UF,	Z,	50V		C525	ECA1HM100	E	10UF,		50V
C210	ECA1VM221G	E	220UF,		35V		C526	ECA1HM330	E	33UF,		50V
C211	ECA1VM221G	E	220UF,		35V		C528	ECA1HM2R2	E	2.2UF,		50V
C212	ECA1CM221	E	220UF,		16V		C529 C530	ECUX1H391KBX ECUX1H221KBM	C	390PF, 220PF,	K, K,	50V 50V
C213	ECUX1H103ZFX	C	0.01UF,	Z,	50V		C531	ECCF1H560J	C	56PF,	J,	50V 50V
C214 C215	ECA1HM100 ECA1HM100	E	10UF, 10UF,		50V 50V		C532	ECQP1H472JZ	P	4700PF,	J,	50V
C216	ECA1CM221	E	220UF,		16V		C533	ECUX1H221KBM	С	220PF,	K,	50V
C308	ECUX1H180JCM	lc	18PF,	J,	50V		C534	ECA1HW4R7UE	E	4.7UF,	ĺ	50V
C311	ECA1HM100	E	10UF,	Ο,	50V		C535	ECUX1H151KCM	С	150PF,	K,	50V
C312	ECUX1H121KCM	С	120PF,	K,	50V		C536	ECUX1H391KBX	C	390PF,	K,	50V
C314	ECA1HM100	Ε	10UF,		50V		C537	ECA1VM470	E	47UF,		35V
C315	ECA1HM4R7G	E	4.7UF,		50V		C538	ECKF1H331KB ECUX1H331KBX	C	330PF,	K,	50V
C316	ECA1HM100	E	10UF,		50V		C539 C551	ECUX1H331KBX ECA1EM101	E	330PF, 100UF,	K,	50V 25V
C317 C318	ECA1HM3R3G ECA1HM100	E E	3.3UF,		50V 50V		C552	ECA1HM220	E	22UF,		50V
C318	ECA1CM102	E	10UF, 1000UF,		50V 16V		C601	ECUX1H560JCW	Ιō	56PF,	J,	50V
C351	ECKF1H331KB	c	330PF,	K,	50V		C602	ECUX1H104ZFW	C	0.1UF,	Z,	50V
C352	ECKF1H221KB	C	220PF,	K,	50V		C604	ECKF1H103ZF	C	0.01UF,	Z,	50V
C353	ECKD3D681KBP	c	680PF,	K,	2KV		C605	ECQB1H273KF	Р	0.027UF,	K,	50V
C358	ECKF1H221KB	c	220PF,	K,	50V		C606	ECA1HMR47G	E	0.47UF,		50V
C371	ECA1HM220	E	22UF,		50V	ı	C607	ECEA1HN4R7U	E	4.7UF,		50V
C372	ECUX1H103ZFW	С	0.01UF,	Ζ,	50V		C608 C609	ECA1HMR22G	E	0.22UF,	1/	50V
C373	ECUX1H103ZFW	C	0.01UF,	Z,	50V		C610	ECQB1H393KF ECUX1H470JCX	C	0.039UF, 47PF,	K, J,	50V 50V
C374 C375	ECUX1H333KBX ECA2CM4R7	C	0.033UF,	K,	50V		C611	ECUX1H050DCW	C	5 PF.	D,	50V 50V
C378	ECUX1H333KBX	C	4.7UF, 0.033UF,	K,	160V 50V		C612	ECA1HM2R2	E	2.2UF,	Β,	50V
C381	ECUX1H391KBX	C	390PF,	K,	50V		C614	ECUX1H152KBW	c	1500PF,	J,	50V
C382	ECUX1H391KBX	С	390PF,	K,	50V		C615	ECA1HM100	E	10UF,		50V
C383	ECUX1H391KBX	С	390PF,	K,	50V		C650	ECA1HM100	E	10UF,		50V
C401	ECA1CM221	E	220UF,		16V		C651	ECA1HM100	E	10UF,		50V
C402	ECUX1H103ZFW	C	0.01UF,	Z,	50V	İ	C652	ECA1HM100	E	10UF,		50V
C403	ECQB1H273KF	P	0.027UF,	K,	50V		C653 C801	ECA1HM100 ECQU1A333MH	E	10UF,		50V
C404	ECSF1CE225	T	2.2UF,		16V		C802	ECQU1A333MH	Р	0.033UF, 0.033UF,	M, M,	1 25V 1 25V
C405 C406	ECSF1CE335 ECUX1H472KBW	T C	3.3UF,	K.	16V		C803	ECKDNB472ME	c	4700PF,	M	1254
C407	ECA1HM100	E	4700PF, 10UF,	Λ.	50V 50V	\triangle	C805	ECKD2H103PU7	c	0.01UF,	•••	500V
C408	ECA1HM4R7G	E	4.7UF,		50V	Δ	C806	ECKD2H103PU7	С	0.01UF,		500V
C410	ECA1CM102	E	1000UF,		16V	Δ	C807	ECKD2H103PU7	С	0.01UF,		500V
C411	ECUX1H472KBW	С	4700PF,	K.	50V	Δ	C809	EC0S2EP221BB	E	220UF,		250V
C412	ECA1HHG101	Ε	100UF,		50V		C810	ECQB1H104KF	P	0.1UF,	K,	50V
C413	ECQM1472KZ	Р	4700PF,	K,	100V		C811	ECA1HM470G	E	47UF,		50V
C417	ECQB1H104KF	Р	0.1UF,	K,	50V		C812 C813	ECA1HM4R7G ECKF1H221KB	E	4.7UF, 220PF,	v	50V 50V
C418	ECKF1H102KB	C	1000PF,	K,	50V		C813	ECKPIR221KB ECKDNB221MB	C	220PF, 200PF,	K, M,	5UV
C419 C420	ECQB1H153KF ECA1HM010	P E	0.015UF, 1UF,	K,	50V		C815	ECKDNB221MB	c	200FF,	M,	
C420	ECA1HM010	E	1UF, 1UF,		50V 50V	٦	C816	ECKF1H103ZF	c	0.01UF,	Z,	50V
C422	ECUX1H153KBM	c	0.015UF,	K,	50V		C819	ECA2CM221WE	E	220UF,	•	160V
C423	ECKF1H103ZF	c	0.01UF,	Z,	50V		C820	ECA1VM222	E	2200UF,		35V
C424	ECUX1H473ZFX	С	0.047UF,	z,	50V		C821	ECKD3D102KBP	С	1000PF,	K,	2KV
C503	ECA1HM2R2	Е	2.2UF,		50V		C3001	ECA1HM100	E	10UF,		50V
C505	ECUX1H561KBM	С	560PF,	K,	50V		C3002	ECA1HM100	E	10UF,		50V
C506	ECQB1H153KF	Р	0.015UF,	K,	50V	.	C3003 C3004	ECA1HM100 ECA1HM100	E	10UF,		50V
C507	ECQB1H473KF	Р	0.047UF,	K,	50V		C3004	ECUX1H683ZFX	C	10UF, 0.68UF,	Z,	50V 50V
C508	ECQB1H223KF	P	0.022UF,	K,	50V		C3005	ECUX1H683ZFX	C	0.68UF, 0.68UF,	Z, Z,	50V 50V
C509 C510	ECA1HM2R2 ECQK1682JZ	E P	2.2UF, 6800PF,	J,	50V		C3007	ECUX1H470JCW	C	47PF,	Z, J,	50V 50V
C510	ECA1EM101	E	100UF,	J,	100V 25V		C3008	ECA1VM470	Ē	47UF,	-,	35V
C512	ECKD2H101KB2	С	1000F,	K,	500V		C3010	ECA1HM100	E	10UF,		50V
		_	,	,			C3011	ECA1HM100	Ε	10UF,		50V
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	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	C3012 C3013 C3014 C3015	ECA1HM100 ECA1HM100 ECA1HM100 ECUX1H221JCW	E 10UF, 50V E 10UF, 50V E 10UF, 50V C 220PF, J, 50V			
		OTHERS		!		
Δ	RTL RTL RTL F901 SW302 SW401 SW3001 SW3002 X601	TNP30938ZB TNP31434ZB TNP31768ZB TNP31769ZB XBA1F30NU100 ESB621282 EVQR4AL13 SSFYP22-08B	CIRCUIT BOARD A CIRCUIT BOARD C CIRCUIT BOARD D CIRCUIT BOARD L FUSE 125V 3A FUNCTION SWITCH SERVICE SWITCH SLIDE SWITCH (75Ω/High) SLIDE SWITCH (VIDEO/S-VIDEO) CRYSTAL CRT SOCKET 2P CONNECTOR 4P CONNECTOR 2P CONNECTOR 4P CONNECTOR 6P CONNECTOR			

ORDER NO. KME9009164C1

Service Manual

Color Video Monitor

BT-S901Y Chassis No. KMX-F903A



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power Input:

120 V AC, 50/60 Hz

Power Consumption:

37W (average)/0.75A (max.)

Video Input/Output:

S-Video signal

• 1.0 Vp-p for Y signal

• 0.3 Vp-p for C signal

High or 75Ω switchable

4P mini DIN type

connector

Video signal

• 1.0 Vp-p ± 10%

ullet High or 75 Ω automatic

• BNC type connector

Audio Input/Output: 0.5 Vrms ±10%

10kΩ (min.)

RCA phono type connector

Ext. Sync Input/Output: 2.0~4.0 Vp-p (negative)

2.0 -4.0 Vp-p (riegative)

High or 75Ω automatic

BNC type connector

Semiconductors:

45 transistors

64 diodes

1 posistor

6 ICs

Anode Voltage:

 $22.0 \, kV \pm 1 \, kV$

(at 0 beam current)

Sound Output: 1.0W (at 10% distortion)

Picture Tube:

Dimensions:

Weight:

1.2W (max.) Speaker: 2¹/₂ inches r

Voice coil 16Ω

Automatic Circuits: Automatic frequency and

phase control

Horizontal automatic frequency control

2¹/₂ inches round type

Automatic degaussing

Automatic Voltage regulator

Automatic beam limiter

A22JWG34X

37square inches

9 inches measured

diagonally

90° deflection, In-line

Width: 8²⁵/₃₂ inches (223 mm)

Depth: 1211/16 inches (321.5 mm)

Height: 9 inches (228.5 mm)

15.5lbs. (7.0kg)

Panasonic

Specifications are subject to change without notice.

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THIS MODEL COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

IMPORTANT SAFETY NOTICE

There are special components used in Panasonic Video Monitor sets which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts **only** to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of Panasonic Communications & Systems Company.

ABBREVIATIONS USED IN THIS MANUAL

ABL	Automatic Beam Limiter	CRT	Cathode Ray Tube
APC	Automatic Phase Control	FBT	Flyback Transformer
DY	Deflection Yoke	HAFC	Horizontal Automatic Frequency Control
OTL	Output Transformerless	ACC	Automatic Color Control
SEPP	Single Ended Push-Pull Circuit	VR	Variable Resistor
AVR	Automatic Voltage Regulator		

SAFETY PRECAUTIONS GENERAL GUIDELINES

- 1. It is advisable to insert an isolation transformer in the power line and AC supply before servicing a hot chassis.
- When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, ensure that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. Before turning the monitor on, measure the resistance between B+ line and chassis ground. Connect ⊕ side of an ohmmeter to the B+ lines, and ⊕ side to chassis ground. Each line should have more resistance than specified, as follows:

B+ Line	Minimum Resistance
121 V	140Ω
27 V	150Ω
15 V	150Ω
12 V	140Ω

- When the monitor is not to be used for a long period of time, unplug the power cord from the AC outlet.
- 6. Potentials, as high as 22.0kV are present when this monitor is in operation. Operation of the monitor without the rear cover involves the danger of a shock hazard from the monitor power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the monitor chassis before handling the tube.
- 7. After servicing, perform the leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn on the monitor's power switch.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the monitor, such as screwheads, connectors, control shafts, handle bracket, etc.

When the exposed metallic part has a return path to the chassis, the reading should be between $240\,k\Omega$ and $5.2\,M\Omega$.

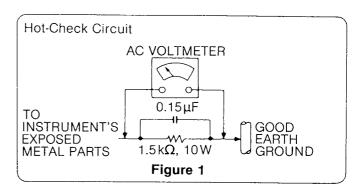
When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

LEAKAGE CURRENT HOT CHECK

(See figure 1.)

- Plug the AC cord directly into the AC outlet.
 DO NOT use an isolation transformer for this check.
- 2. Connect a $1.5 \, k\Omega$, 10 watt resistor, in parallel with a $0.15 \, \mu F$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.

5. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot check. Leakage current must not exceed 0.5 milliamp. If a measurement is outside of the specified limits, there is a possibility of a shock hazard, and the monitor should be repaired and rechecked before it is returned to the customer.



X-RADIATION

WARNING: 1. The potential source of X-Radiation in monitor sets is the High Voltage section and the picture tube.

2. When using a picture tube test jig for service, ensure the jig is capable of handling 24.0 kV without causing X-Radiation.

Note: It is important to use an accurate, periodically calibrated high voltage meter.

- 1. Turn Bright and Contrast controls fully counterclockwise.
- 2. Set SERVICE switch to SERVICE position.
- 3. Measure the high voltage. The high voltage meter (electrostatic type) reading should indicate 22.0 kV±1.0 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

HORIZONTAL OSC. DISABLE CIRCUIT TEST

SERVICE WARNING: This test must be made as a final check before the monitor is returned to the customer after repairs are made.

- 1. With rear cover removed, supply nominal 120 V AC to the monitor and turn on power switch.
- 2. Receive a monoscope pattern signal and adjust user controls to normal position.
- 3. Turn off the power switch.
- 4. Connect $5k\Omega$ control VR with its resistance maximum between TP92 and TP93.
- 5. Turn on the power switch again.
- 6. Turn the $5k\Omega$ control VR slowly to decrease its resistance.
- 7. Confirm that the picture falls out of horizontal sync.
- If the test fails, Horizontal Osc. Disable Circuit is not operating and must be repaired.
 Refer to the Horizontal Osc. Disable Circuit Repair Procedure.

HORIZONTAL OSC. DISABLE CIRCUIT REPAIR PROCEDURE

- Connect a DC voltmeter between the cathode of D510 and chassis ground of the main circuit board. If approximately 21 V is not present on the cathode of D510, find the cause. Check R529, D510 and C525.
- 2) Connect a DC voltmeter between the cathode of D512 and chassis ground of the main circuit board. If approximately 12V is not present on the cathode of D512, find the cause. Check R524, R523 and D511.
- 3) Repeat step 2) procedure. If approximately 12V is present on the cathode, check D512, R522, Q504, R521 and IC401.
- 4) Carefully check above specified parts, and related circuits and parts. When the circuit is repaired, try the Horizontal Osc. Disable Circuit Test again.

HORIZONTAL OSC. DISABLE CIRCUIT EXPLANATION

- Under normal operating conditions, zener diode D512 is CUT OFF since its breakdown voltage is not reached.
- 2. When the amplitude of the pulse applied to diode D510 increases, the cathode voltage of zener diode D512 rises, and D512 conducts.
- 3. The conduction of D512 increases the base voltage of Q504 and causes it to conduct.
- 4. This causes the pin ③ voltage of IC401 to decrease.

As a result the horizontal oscillator frequency goes higher and the picture on the screen falls out of horizontal sync.

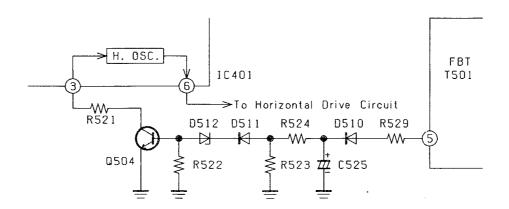
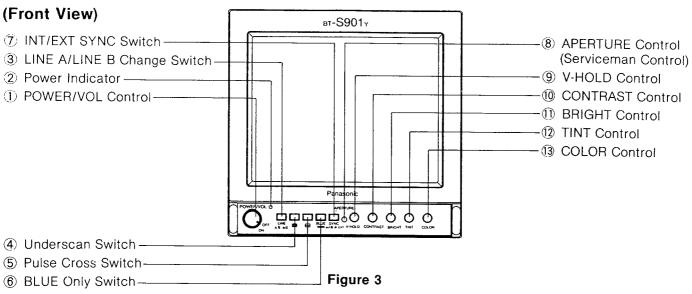


Figure 2

USER CONTROL LOCATIONS AND OPERATIONS

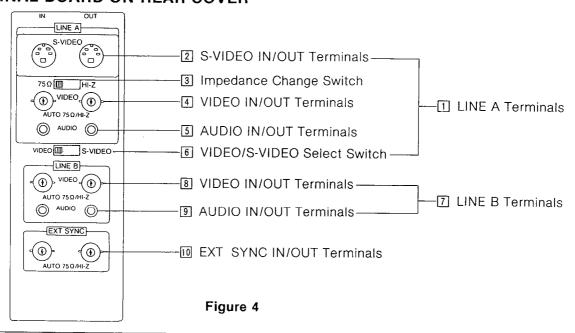




OPERATIONS

OPERATIONS	
① POWER/VOL Control	 Turn clockwise to turn the monitor on. Turn counterclockwise to turn the monitor off. Adjust this control for the appropriate audio level.
② Power Indicator	The Power Indicator will light when the monitor is turned on.
③ LINE A/LINE B Change Switch A ■ B ■	LINE A: Receives video signal from the VIDEO IN terminal or S-VIDEO signal from the S-VIDEO IN terminal, and audio signal from AUDIO IN terminal. LINE B: Receives video and audio signals from the VIDEO IN and AUDIO IN terminals.
④ Underscan Switch ()	Decreases the overall picture size to allow the corners to be seen.
⑤ Pulse Cross Switch (Receives cross pulse to allow vertical and horizontal syncs to be seen in the picture.
BLUE Only Switch (BLUE)	Defeats the red and green signals. This feature is used for monitor balancing with the SMPTE color bar signal.
⑦ INT/EXT SYNC Switch	Set the INT/EXT SYNC Switch to EXT Position when connecting an external composite sync signal to the monitor.
APERTURE Control (Serviceman Control)	Adjust the APERTURE control for proper sharpness. (Turn right for sharper picture.)
V-HOLD Control	Adjust the V-Hold control if the picture rolls up or down.
CONTRAST Control	Adjust the contrast level for proper overall contrast. There is a click position for normal level.
① BRIGHT Control	Adjust the brightness level for proper overall picture brightness. There is a click position for normal level.
12 TINT Control	Adjust the Tint control for proper chroma phase of flesh tones.
③ COLOR Control	Adjust the Color control to set the chroma (saturation) level.

GENERAL CONNECTION AND APPLICATIONS TERMINAL BOARD ON REAR COVER



LINE A Terminals	Available when LINE A / LINE B Change Switch on the front panel is set to "LINE A".
2 S-VIDEO IN/OUT Terminals	Connect S-VIDEO signal to IN terminal. The same signal is available at the OUT terminal.
Impedance Change Switch	Set this switch to 75Ω for the S-VIDEO termination or to HI-Z for bridge-connection to next unit.
4 VIDEO IN/OUT Terminals	Connect video signal to IN terminal. The same signal is available at the OUT terminal.
5 AUDIO IN/OUT Terminals	Connect audio signal to IN terminal. The same signal is available at the OUT terminal.
6 VIDEO/S-VIDEO Select Switch	When the video signal is applied, set this switch to VIDEO position and when the S-VIDEO signal is applied, set this switch to S-VIDEO position.
7 LINE B Terminals	Available when LINE A/LINE B Change Switch on the front panel is set to "LINE B".
■ VIDEO IN/OUT Terminals	Connect video signal to IN terminal. The same signal is available at the OUT terminal.
AUDIO IN/OUT Terminals	Connect audio signal to IN terminal. The same signal is available at the OUT terminal.
EXT SYNC IN/OUT Terminals	Connect an external composite sync signal to this terminal when a non-composite video signal is applied to the video terminals (4 or 8).

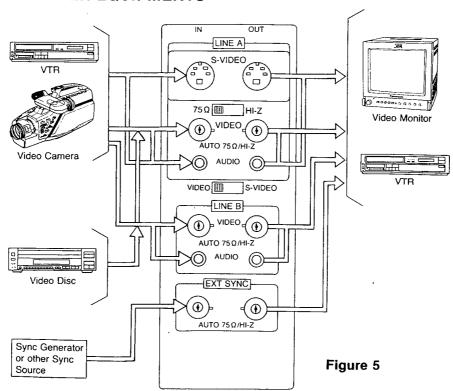
- **Note:** 1. The video and the external sync input/output terminals are equipped with "Automatic Termination Switch". If only input signal is applied, they are terminated by 75 ohm, and if both input/output signals applied, they are opened to high impedance.
 - 2. It is possible to connect up to 10 monitors in series by looping through the S-VIDEO IN and S-VIDEO OUT or the VIDEO IN and VIDEO OUT terminals. There may be a possibility of a brightness reduction or interference if more than 10 units are connected. Please carefully confirm that these problems do not exist with the units before connection.

SIGNAL LEVEL AND TERMINAL IMPEDANCE

Termin	al Item	Level	Impedance	Remarks	
S-VIDEO	OH INPUT Y: 1.0 V C: 0.3 V		High/75 Ω (Switchable)	Y signal includes sync	
S-VIII	OUTPUT	Y: 1.0Vp-p C: 0.3Vp-p	High/75Ω (Switchable)	signal and C signal does not include it	
VIDEO	INPUT	1.0 Vp-p (0.7 Vp-p)	High/75Ω (Automatic)	Signal measures 1.0 Vp-p	
VID	OUTPUT	1.0 Vp-p (0.7 Vp-p)	High/75 Ω (Automatic)	with sync, or 0.7 Vp-p without sync.	
AUDIO	INPUT	-6dB	10kΩ	1 Vrms=0dB (at 400Hz)	
AU	OUTPUT	-6dB	10kΩ		
SYNC	INPUT	2.0~4.0Vp-p	High/75 Ω (Automatic)	Negative vertical and	
EXT	OUTPUT	2.0~4.0 Vp-p	High/75 Ω (Automatic)	horizontal sync	

Note: Only the S-VIDEO input/output terminals are not equipped with "Automatic Termination Switch". If only the input terminal is used, the impedance change switch must be set to 75Ω , and if both input and output terminals are used, the impedance change switch must be set to HI-Z for high impedance.

CONNECTION TO OTHER EQUIPMENTS



DISASSEMBLY INSTRUCTIONS

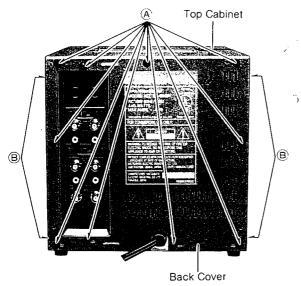


Figure 6

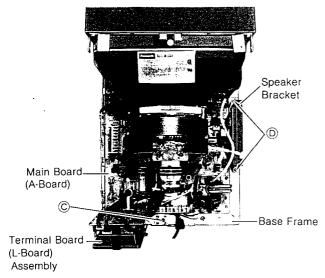


Figure 7

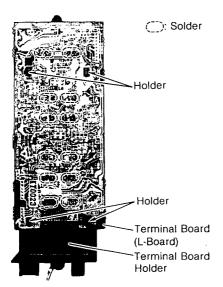


Figure 8

Caution: When servicing or replacing the CRT, it is important that the anode high voltage be completely discharged, as high voltage (1kV) may remain on the anode for an extended time after power off.

1. Back Cover Removal

- a) Remove 10 screws (A) from the back cover.
- b) Pull the back cover toward you and remove it.

Note: Remove only the screws (a) indicated by

mark and 4 screws (b) in order to remove back
cover and top cabinet together.

2. Top Cabinet Removal

a) Remove 4 screws ® from the top cabinet, and then carefully pull the top cabinet toward you.

3. Terminal Board (L-Board) Removal

- a) Remove 1 screw @ from the base frame.
- Disconnect connectors CO-1L, CO-2L, CO-3L, CO-4L and CO-5L from the terminal board (Lboard) assembly.
- c) Remove the terminal board (L-board) assembly.
- d) Unsolder the points indicated in fig. 8 and remove the terminal board holder from the terminal board (L-Board).

4. Speaker Block Removal

- a) Remove 2 screws @ from the speaker bracket.
- b) Remove the speaker block from the base frame.

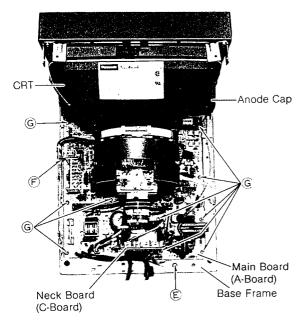
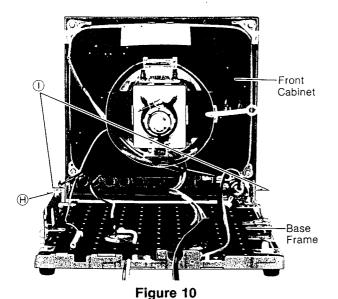


Figure 9



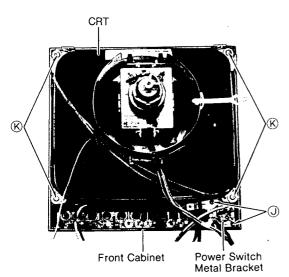


Figure 11

5. Main Board (A-Board) Removal

- a) Disconnect the neck board (C-board) and the anode cap from the CRT.
- b) Disconnect the DY connector, degaussing coil connector, power switch connector (CO-1A) and LED board (D-board) connector (CO-5A) from the main board (A-board).
- c) Disconnect CRT grounding strap connector (CO-1C) from the neck board (C-board).
- d) Remove 2 screws (E) and (F) from the base frame.
- e) Remove 10 screws © from the main board (A-board).
- f) Remove the main board (A-board) from the base frame.

6. Base Frame Removal

- Remove the power switch knob from the front cabinet.
- b) Remove 1 screw (H) from the base frame.
- c) Place the unit with the CRT face down on a rubber mat or other soft surface to protect the CRT and the cabinet.
- d) Remove 2 screws ① from the front cabinet.
- e) Remove the base frame from the front cabinet.

7. Power Switch Block and CRT Removal

- a) Remove 2 screws ① from the power switch metal bracket.
- b) Remove the power switch metal bracket from the front cabinet.
- c) Remove 4 screws ® from the CRT.
- d) Remove the CRT from the front cabinet.

Caution: Do not lift the CRT by the neck.

ADJUSTMENTS MAIN PARTS LOCATION CHART

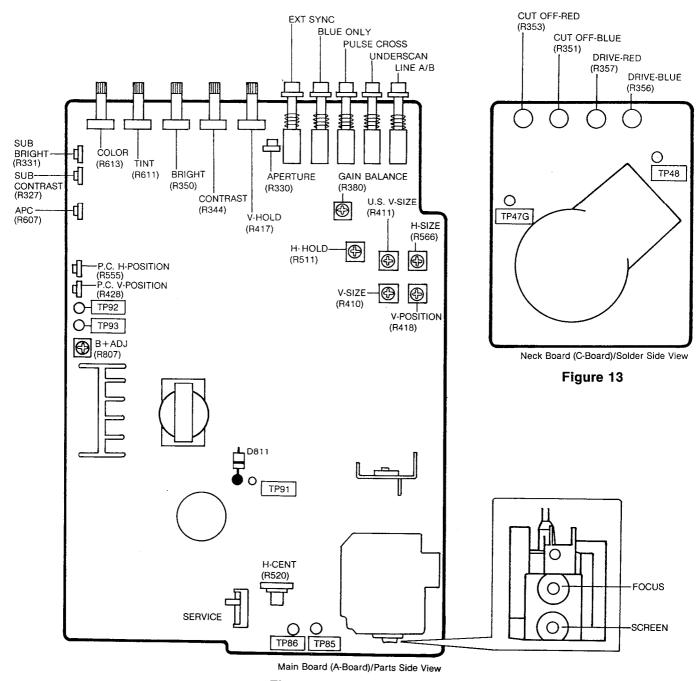


Figure 12

A. SERVICING ADJUSTMENTS

VERTICAL HOLD ADJUSTMENT

Adjust V-HOLD control (R417) and set it at the point where vertical movement (horizontal lines) stops.

APERTURE ADJUSTMENT

Adjust APERTURE control (R330) for proper sharpness control (R330).

FOCUS ADJUSTMENT

Adjust FOCUS control on the FBT to obtain the sharpest and clearest picture.

B. INTERNAL ADJUSTMENT

When measuring voltage with a VTVM, be sure to use the test points located on the conductor side of the circuit boards.

B+ VOLTAGE (+121 V) ADJUSTMENT

- 1. Set BRIGHT (R350) and CONTRAST (R344) controls to minimum and service switch to SERVICE position.
- 2. Connect a DC voltmeter between TP91 and chassis ground on main board (A-board).
- 3. Adjust B+ ADJ. control (R807) for $121.0V \pm 0.5V$.

HIGH VOLTAGE CONFIRMATION

- 1. Adjust white balance. (See page 12.)
- 2. Set BRIGHT (R350) and CONTRAST (R344) controls to minimum and service switch to SERVICE position.
- Using a calibrated high voltage meter (electrostatic type) confirm that the high voltage is within the range of 22.0kV±1.0kV.

Note: Be certain that B+ voltage is $121.0V \pm 0.5V$ during the high voltage confirmation.

HORIZONTAL HOLD ADJUSTMENT

Adjust H-HOLD control (R511) and set it at the point where horizontal movement (diagonal lines) stops.

VERTICAL SIZE ADJUSTMENT

Adjust V-SIZE control (R410) until picture becomes symmetrical from top to bottom.

VERTICAL POSITION ADJUSTMENT

Adjust V-POSITION control (R418) until picture becomes vertical center.

H-RASTER CENTER ADJUSTMENT

Adjust H-CENTER control (R520) until picture becomes centered horizontally.

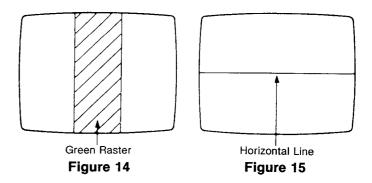
COLOR PURITY ADJUSTMENT

(See figures 14 and 16)

- Operate the monitor for 20 minutes, with BRIGHT (R350) and CONTRAST (R344) controls at maximum position to warm up the CRT.
- 2. Degauss the monitor fully by using an external degaussing coil.
- 3. Roughly adjust convergence. (See page 12.)
- 4. Apply a black and white video signal.

- Turn RED and BLUE CUT OFF controls (R353 and R351) fully counterclockwise to obtain a green field. Adjust DRIVE controls (R357 and R356) if green field is not obtained.
- 6. Loosen the deflection yoke clamp screw and move the deflection yoke as close to the purity magnet as possible.
- 7. Release the purity magnets by cutting the white lacquer which locks the purity and convergence magnets. Then, adjust the purity magnet to set the vertical green raster precisely at the center of the screen. (See figure 14.)
- 8. Slowly move the deflection yoke forward and adjust for the best overall green screen.
- 9. Tighten the deflection yoke clamp screw.
- 10. Produce the blue and red raster with CUT OFF controls (R353 and R351) and observe that good purity is obtained on the respective field.
- 11. Observe that a uniform white raster is obtained by adjusting R and B CUT OFF controls (R353 and R351). If the screen is not uniformly white, repeat above procedure.

Note: Purity correction magnet may be effective to control purity slightly.



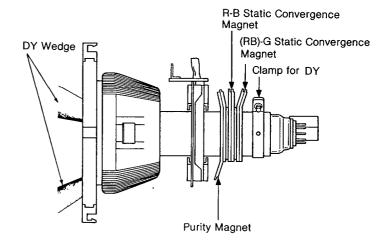
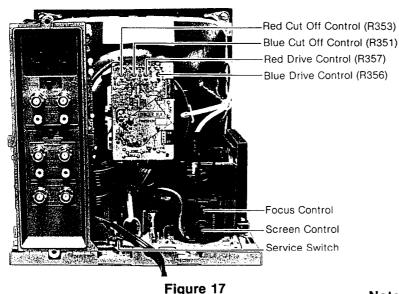


Figure 16



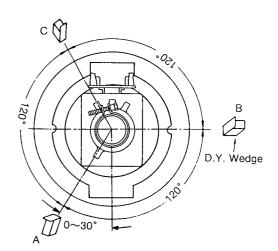


Figure 18

CONVERGENCE ADJUSTMENT

Note: Before adjusting convergence, vertical size and focus adjustments must be completed.

- 1. Apply a crosshatch signal.
- 2. The brightness level should be no higher than necessary to obtain a clear pattern.
- 3. Release the convergence magnet by cutting the white lacquer which locks the purity and convergence magnets. Then, converge the red and blue lines at the center of the screen by rotating the R-B static convergence magnet. (See figure 16.)
- Align the converged red/blue lines with the green lines at the center of the screen by rotating the (RB)-G static convergence magnet. (See figure 16.)
- 5. Remove the DY wedges (see figure 16) and slightly tilt (do not rotate) the deflection yoke horizontally and vertically to obtain good overall convergence.
- 6. Secure the deflection yoke by reinserting the wedges. (See figure 18.)
- 7. If purity error is found, repeat the purity adjustments.
- 8. After the color purity and the convergence adjustments are completed, lock the magnets with white lacquer or silicone rubber.

Note:

- Wedge A shown in figure 18 should be fixed within a range of 0°~30° to the left of the vertical line as shown.
- 2. After inserting wedge A, insert wedges B and C. The wedges should be set 120° apart from each other.
- Be certain that the three wedges are firmly fixed and the deflection yoke is tightly clamped in place. Otherwise the deflection yoke may shift its position and cause a loss of convergence and purity.

WHITE BALANCE ADJUSTMENT

(See figures 15 and 17.)

- 1. Apply a black and white video pattern.
- 2. Set TINT control (R611) to center and BRIGHT (R350), CONTRAST (R344) and COLOR (R613) controls to minimum position.
- 3. Set SERVICE switch to SERVICE position.
- Turn two CUT OFF controls (R353 and R351) fully counterclockwise, then turn each control forward (clockwise) 90°.
- 5. Turn SCREEN control fully counterclockwise.
- 6. Connect a VTVM between TP47G and chassis ground on C-Board.
- Adjust BRIGHT control (R350) so that the reading of VTVM becomes 105V±1V.
 If BRIGHT control (R350) can not reach 105V, adjust SUB-BRIGHT control (R331) additionaly.
- 8. Slowly turn SCREEN control clockwise until a dim green horizontal line appears on the picture tube screen.
- Make the horizontal line white by turning two CUT OFF controls which were previously set in step (4).



- 10. Return SERVICE switch to FAST position.
- 11. Alternately adjust Red and Blue DRIVE controls (R357 and R356) to produce a normal black and white picture. Check the black and white picture detail for proper black and white retention (no coloration) from lowlights to highlights and at all brightness levels for proper tracking. Proper tracking at all brightness levels can be obtained when SCREEN control, CUT OFF controls, and DRIVE controls are properly adjusted. If the results are unsatisfactory, repeat all the above steps.

SUB-BRIGHT CONTROL ADJUSTMENT

This is factory adjusted. Usually no further adjustment is required in the field. However, when the A-board, C-board or CRT is replaced, the following adjustment is necessary:

- 1. Apply a cross hatch pattern signal.
- 2. Set BRIGHT (R350) and CONTRAST (R344) controls at their click position.
- 3. Connect the DC currentmeter between TP85 and TP86 (positive lead of the voltmeter to TP85 and negative lead to TP86).
- 4. Adjust SUB-BRIGHT control (R331) so that the reading of the currentmeter becomes approximately 170μA for proper picture brightness.

Note: For this adjustment NTSC Pattern Generator, model LCG-396 manufactured by Leader Electronics Corp. (Japan) is recommended.

UNDERSCAN V. SIZE ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push UNDERSCAN switch on the front panel.
- Adjust U.S. V-SIZE control (R411) until picture height becomes 4mm±1mm shorter than picture tube screen at top and bottom as shown in figure 19.
- 4. If the picture is shifted upper or lower, adjust V-POSITION control (R418).

UNDERSCAN H. SIZE ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push UNDERSCAN switch on the front panel.
- 3. Adjust H-SIZE control (R566) until picture width becomes 6 mm ± 1 mm shorter than picture tube screen at both sides as shown in figure 19.
- 4. If the picture is shifted left or right, adjust H-CENTER control (R520).

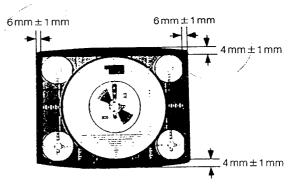


Figure 19

PULSE CROSS V-POSITION ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push PULSE CROSS switch on the front panel.
- 3. Adjust P.C. V-POSITION control (R428) until horizontal blanking line becomes at the vertical center on picture tube screen. (See figure 20.)

PULSE CROSS H-POSITION ADJUSTMENT

- 1. Apply a monoscope pattern to the monitor.
- 2. Push PULSE CROSS switch on the front panel.
- 3. Adjust P.C. H-POSITION control (R555) until the length between left screen edge and vertical blanking line becomes approximately 35 mm. (See figure 20.)

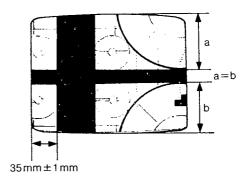


Figure 20

ALIGNMENTS

SUB-CONTRAST ALIGNMENT

- Apply a studio color bar signal. Input signal should be 1.0Vp-p. (video level 0.7Vp-p, sync level 0.3Vp-p).
- 2. Set BRIGHT (R350) and CONTRAST (R344) controls fully clockwise.
- 3. Set COLOR control (R613) fully counterclockwise.
- 4. Connect an oscilloscope to TP48 on C-board.
- 5. Adjust SUB-CONTRAST control (R327) to obtain 1.5 Vp-p ± 0.1 Vp-p from white level to black level. (See figure 21.)

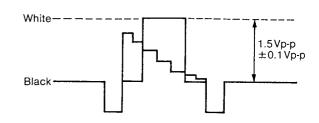


Figure 21

COMB FILTER ALIGNMENT

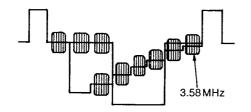
Preparation

13

1. Connect an oscilloscope to TP100.

Alignment Procedure

- 1. Apply a studio color bar signal.
- 2. Adjust GAIN BALANCE control (R380) to set 3.58 MHz sub carrier to the minimum amplitude. (See figure 22.)
- 3. Adjust the coil (L372) to set 3.58 MHz sub carrier to the minimum amplitude.
- 4. Adjust GAIN BALANCE control (R380) to set 3.58 MHz sub carrier to the minimum amplitude.



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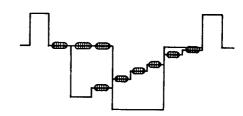


Figure 22

APC ALIGNMENT

Preparation

- 1. Prepare a C-jumper (0.33μF).
- Connect a digital multi-meter between terminal (4) of IC601 and chassis ground.

Alignment Procedure

- 1. Apply a color video signal.
- 2. Measure the voltage of terminal (4) of IC601.
- Connect the C-jumper between terminal ⑦ of IC601 and chassis ground.
- 4. Then apply a black and white video signal.
- Adjust APC control (R607) so that the reading of the multi-meter becomes equal to the voltage measured at step 2.

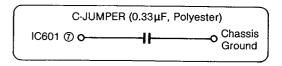
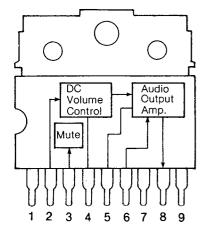


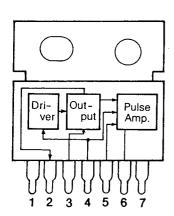
Figure 23

COMPONENT REFERENCE GUIDE



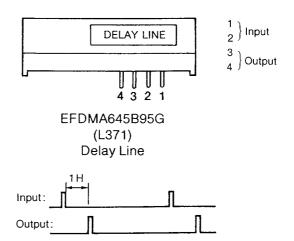
AN5265 (IC201) Sound Output

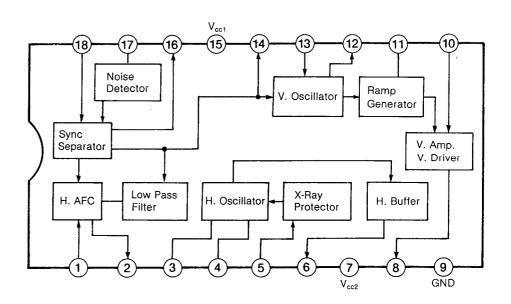
Pin No.	Pin Name	
1	Vcc 1	
2	Sound Input	
3.	Mute	
4	Volume Control	
5	Filter	
6	Feedback	
7	GND	
8	Sound Output	
9	Vcc 2	



AN5515X (IC402) V. Deflection Output

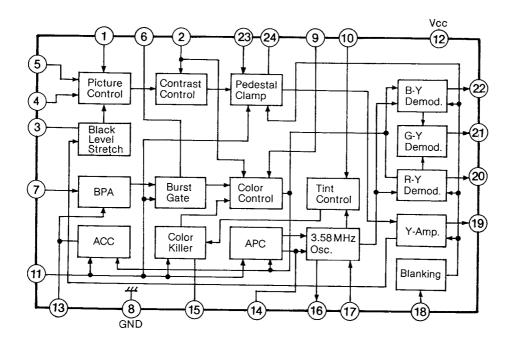
	· · · · · · · · · · · · · · · · · · ·
Pin No.	Pin Name
1	GND
2	Output
3	Supply Voltage for Output
4	Input
5	Trigger Pulse Input
6	Pulse Amp. Output
7	Vcc





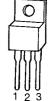
AN5436N (IC401) Deflection Signal Processing

Pin No.	Pin Name	Pin No.	Pin Name
1	AFC Ref. Signal Input	10	DC, AC Feedback Input
2	H. AFC Output	11	V. Sawtooth Capacitor
3	H. Hold Volume	12	V. Pulse Output
4	H. Osc. Capacitor	13	V. Hold Volume
5	X-Ray Protector Input	14	V. Integral Capacitor
6	H. Output	15	Vcc 1
7	Vcc 2	16	Sync Sep. Output
8	V. Output	17	Noise Detect Input
9	GND	18	Video Signal Input



AN5316N (IC601) Video/Chrominance Signal Processing

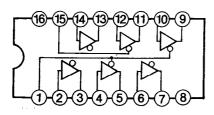
Pin No.	Pin Name	Pin No.	Pin Name
1	Picture Control	13	ACC Filter
2	Contrast Control	14	APC Filter
3	Black Level Filter	15	Color Killer Filter
4	Video Input 1	16	3.58 MHz Osc. Output
5	Video Input 2	17	3.58 MHz Osc. Input
6	Chrominance By-pass	18	Blanking Pulse Input
7	Chrominance Input	19	Y Output
8	GND	20	(R-Y) Output
9	Color Control	21	(G-Y) Output
10	Tint Control	22	(B-Y) Output
11	Burst Gate Pulse Input	23	Brightness Control
12	Vcc	24	Pedestal Clamp Filter



1: Input 2: GND 3: Output

LA78M12

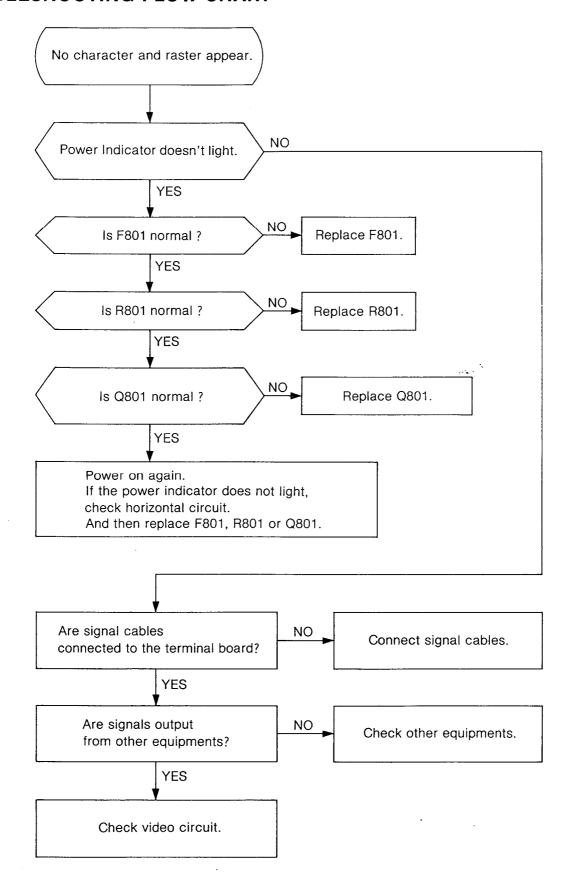
(IC502) Regulator IC (+12V)

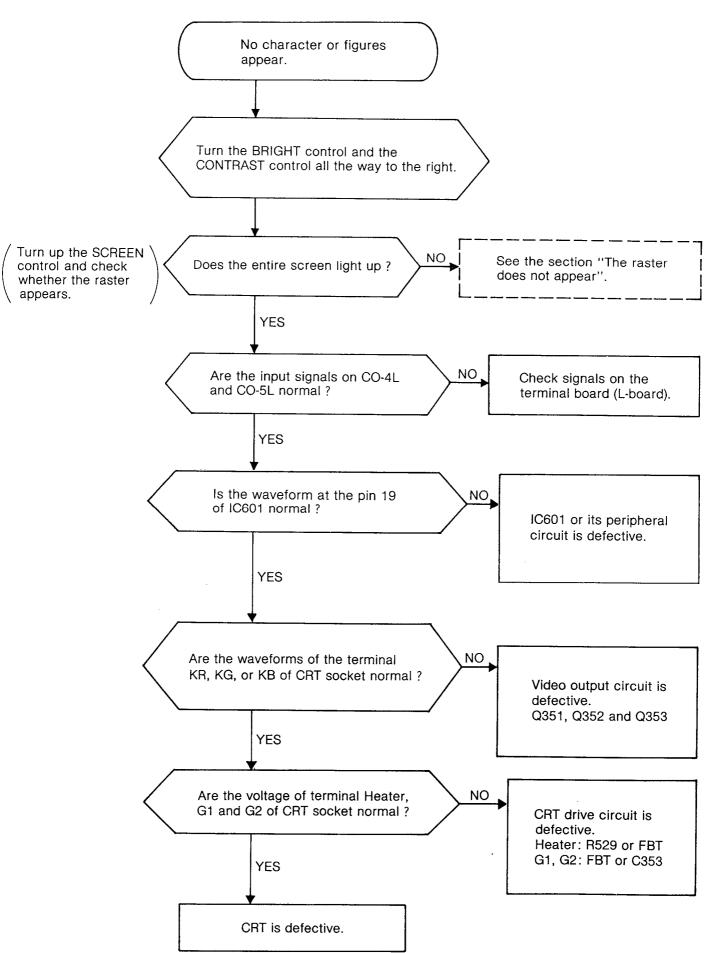


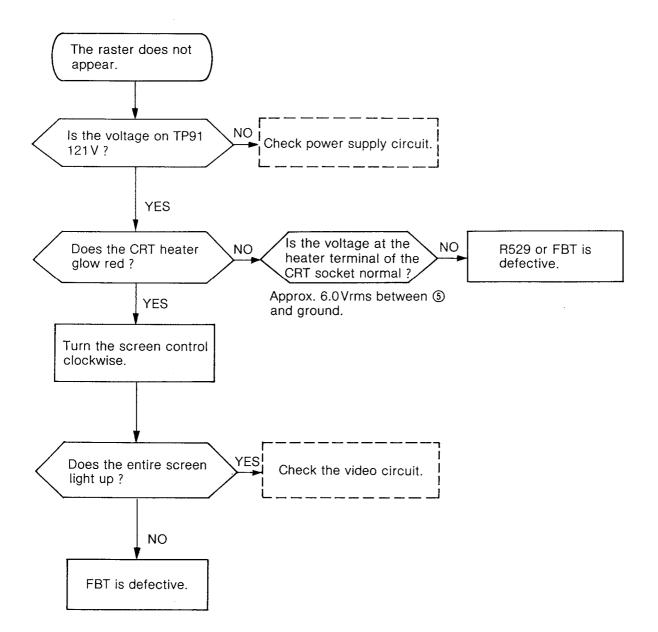
TVSUPD4503BC (IC501) 3 State Driver

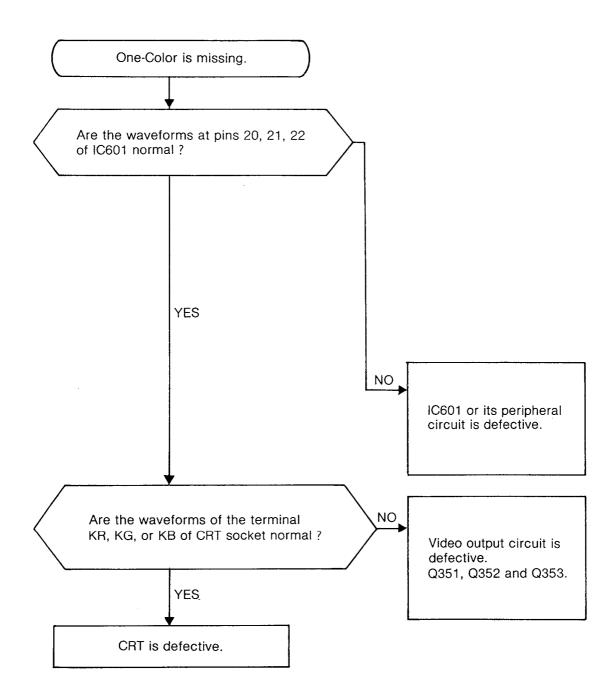
Pin No.	Pin Name	
1	Output Control	
2	1A	
3	1Y	
4	2A	
_ 5	2Y	
6	3A	
7	3Y	
8	GND	
9	4A	
10	4Y	
11	5A	
12	5Y	
13	6A	
14	6Y	
15	Output Control	
16	Vcc	

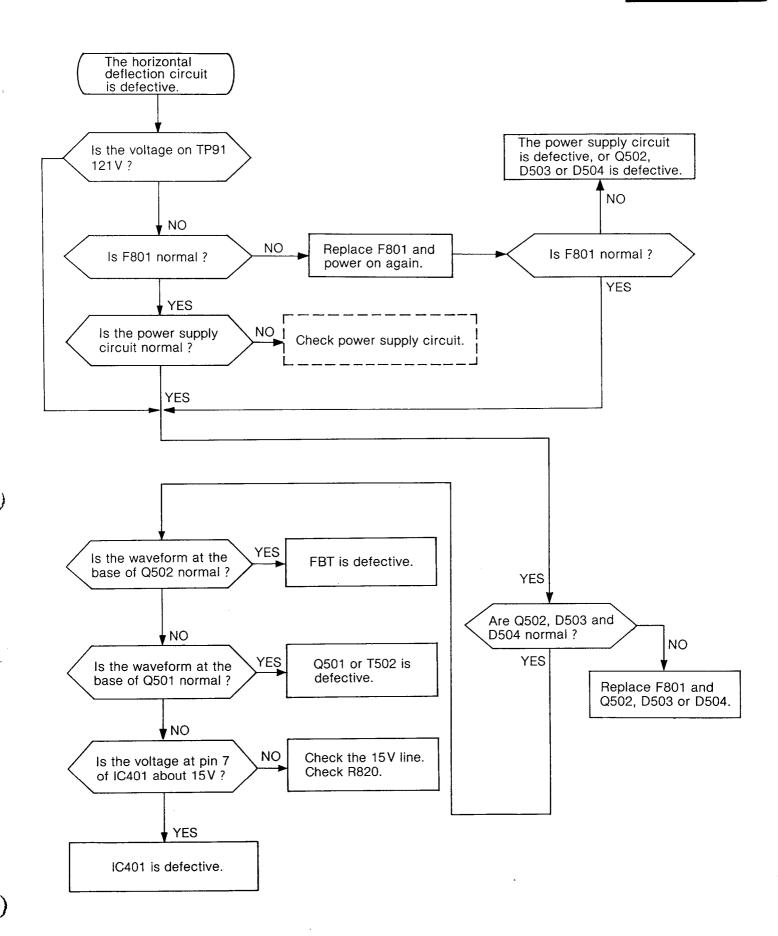
TROUBLESHOOTING FLOW CHART

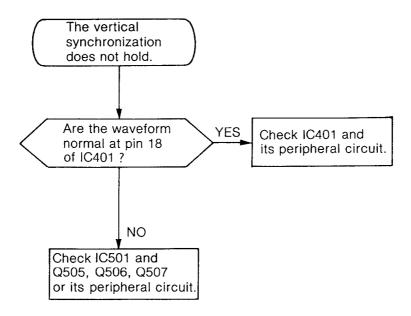


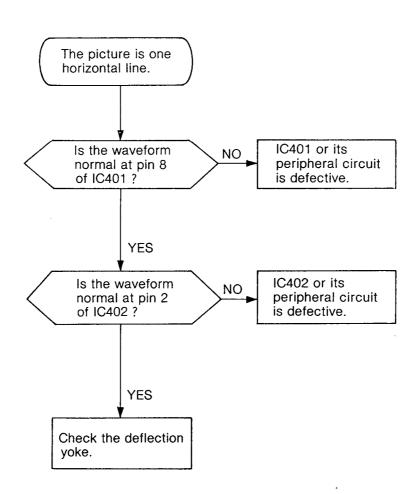




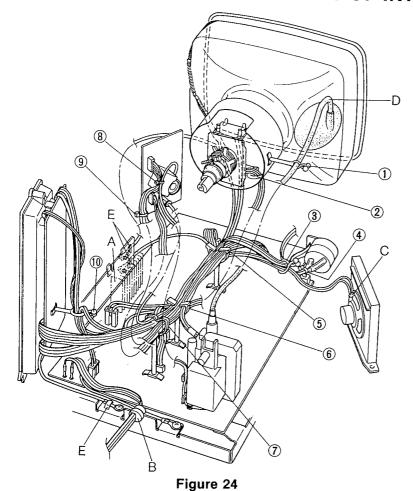








CLAMPING AND WIRING POSITIONS OF INTERNAL LEADS



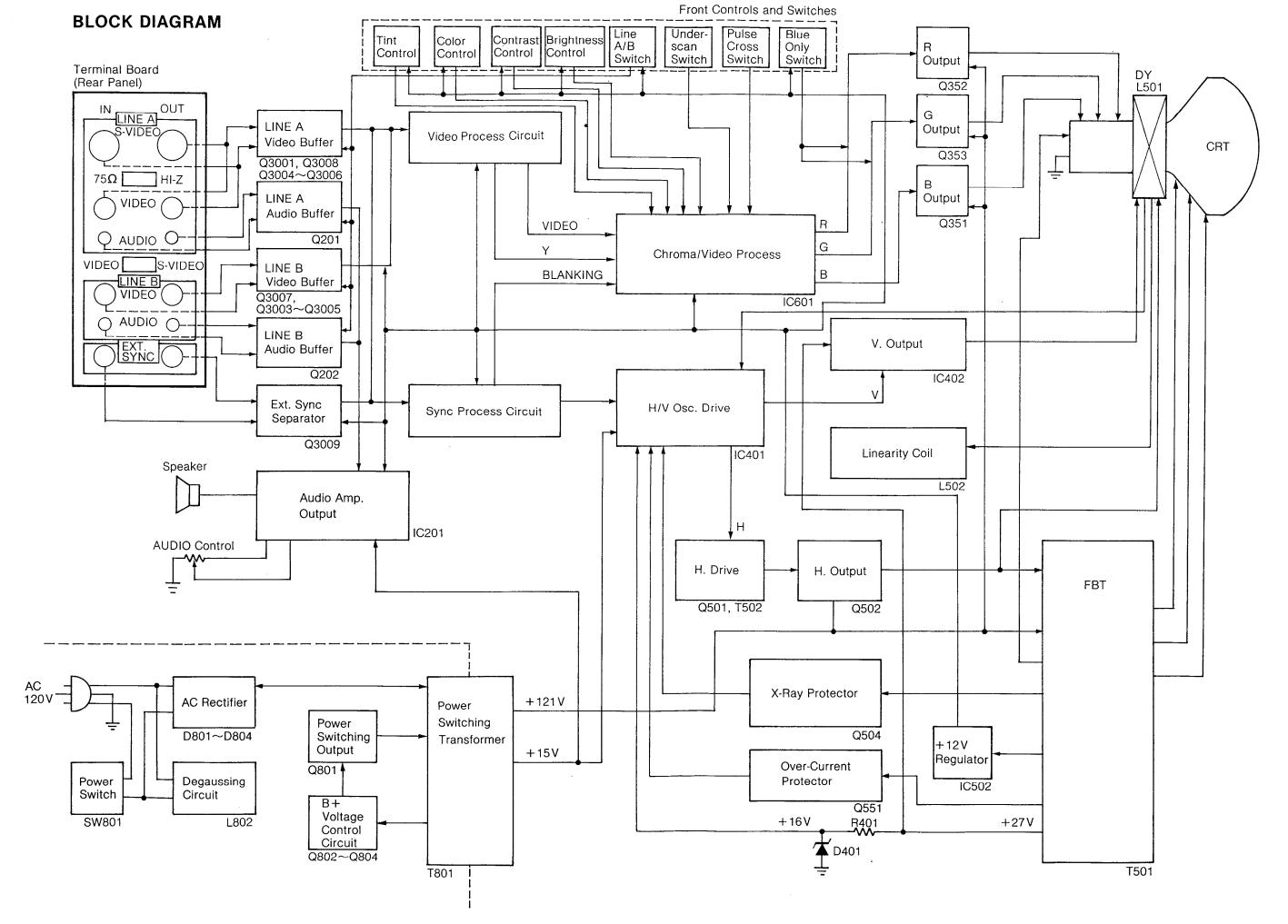
Caution:

- A. Arrange all leads in order not to touch this heat sink.
- B. Fix the power cord bushing in order not to stretch the power cord.
- C. Fix the speaker to the speaker bracket so that the leads should be located in left upper side by seeing from the inside.
- D. Fit the anode cap so that the anode lead should be located in the upper part.
- E. Fix the leads by screws through these arches.

Clamper	Clamp Lead	
①	A lead from the anode cap	
2	Four leads from DY	
3	 A cable from the speaker/CO-1L Two leads from the power switch A cable from the power switch/CO-2L A cable from D-Board/CO-5A A cable from A-Board/CO-4L 	
4	Two leads from the power switch	
(5)	 A cable from the speaker/CO-1L A cable from A-Board/CO-4L A cable from A-Board/CO-5L Two leads from the power switch A cable from the power switch/CO-2L A cable from A-Board/A1-A6 Two leads from the Degaussing Coil A GND lead from A17 A 1 P lead from Grounding Strap/CO-1C 	
®	 A cable from the speaker/CO-1L A cable from A-Board/CO-4L A cable from A-Board/CO-5L Two leads from the power switch A cable from the power switch/CO-2L A cable from A-Board/A1-A6 Two leads from the Degaussing Coil A GND lead from A17 A 1 P lead from Grounding Strap/CO-1C Four leads from DY 	

Clamper	Clamp Lead
7	 A cable from the speaker/CO-1L A cable from A-Board/CO-3L A cable from A-Board/CO-4L A cable from A-Board/CO-5L A cable from the power switch/CO-2L A cable from A-Board/A1-A6 Two leads from the Degaussing Coil A 1 P lead from Grounding Strap
8	Two leads from FBTA cable from A-Board/A1-A6
9	• A cable from A-Board/A1-A6
10	 A cable from A-Board/CO-3L A cable from the power switch/CO-2L A cable from the speaker/CO-1L Two leads from Degaussing Coil

MEMO
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SCHEMATIC DIAGRAM AND CIRCUIT BOARD

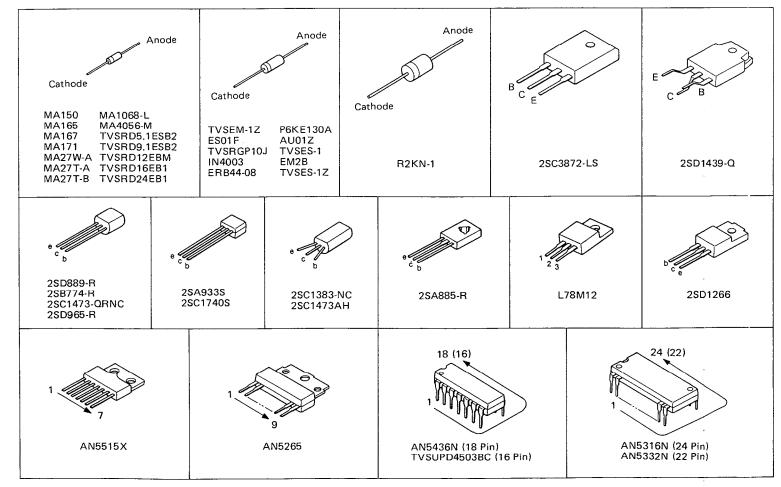
THE STATE OF THE AND LOCAL TO SELECT MODICE OF THE SELECT

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X—RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

NOTE

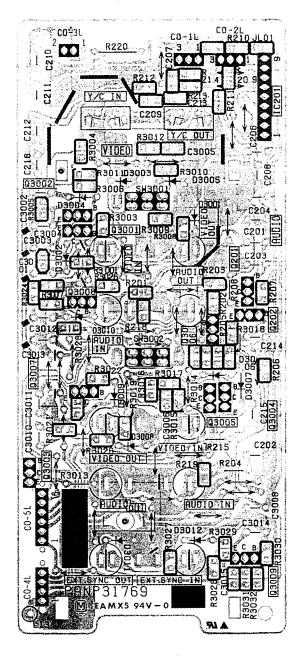
140) i E.					
1.	All resistors are carbon 1/4W resistor, unless otherwise noted with the following marks. Unit of resistance is OHM (Ω) , $(K = 1,000, M = 1,000,000)$.					
	Δ : Solid	-we: Thermistor	(): Leadless Type			
	☐ : Chip (1/8W)	⊗ : Fuse	_			
	: Non-flammable	: Metal Oxide				
	: Cement	: Metal Film				
2.	CAPACITOR					
	All capacitors are ceramic 50	V capacitor, unless otherwise	noted with the following m	arks.		
Unit of capacitance is μF , unless otherwise noted.						
	±‡‡=: Electrolytic	NH: NH Type	S : Polystyrene	: Chip (SL)		
	NP: Bipolar	: Titanium Oxide	🗵 : Polypropylene	图: Chip (not SL		
	(Ž): Z Type	⊗ : Temp Compensation	(m): Metalized Polyester			
	(T): Tantalum	(M): Polyester				
3.	COIL					
	Unit of inductance is μH .	•				
4.	TEST POINT	•				
	: Test point position,					
5.	VOLTAGE MEASUREMENT	Γ.				
	Voltage is measured by a volt	ohm meter with DC 20k OH	M/V receiving a rainbow co	lor bar signal		
	when all customer's controls	are set to the maximum posit	ion.			
6.	When arrow mark (-) is	found, connection is easily fo	ound along with the direction	on of an arrow.		

7. This schematic diagram is the latest at the time of printing and subject to change without notice.

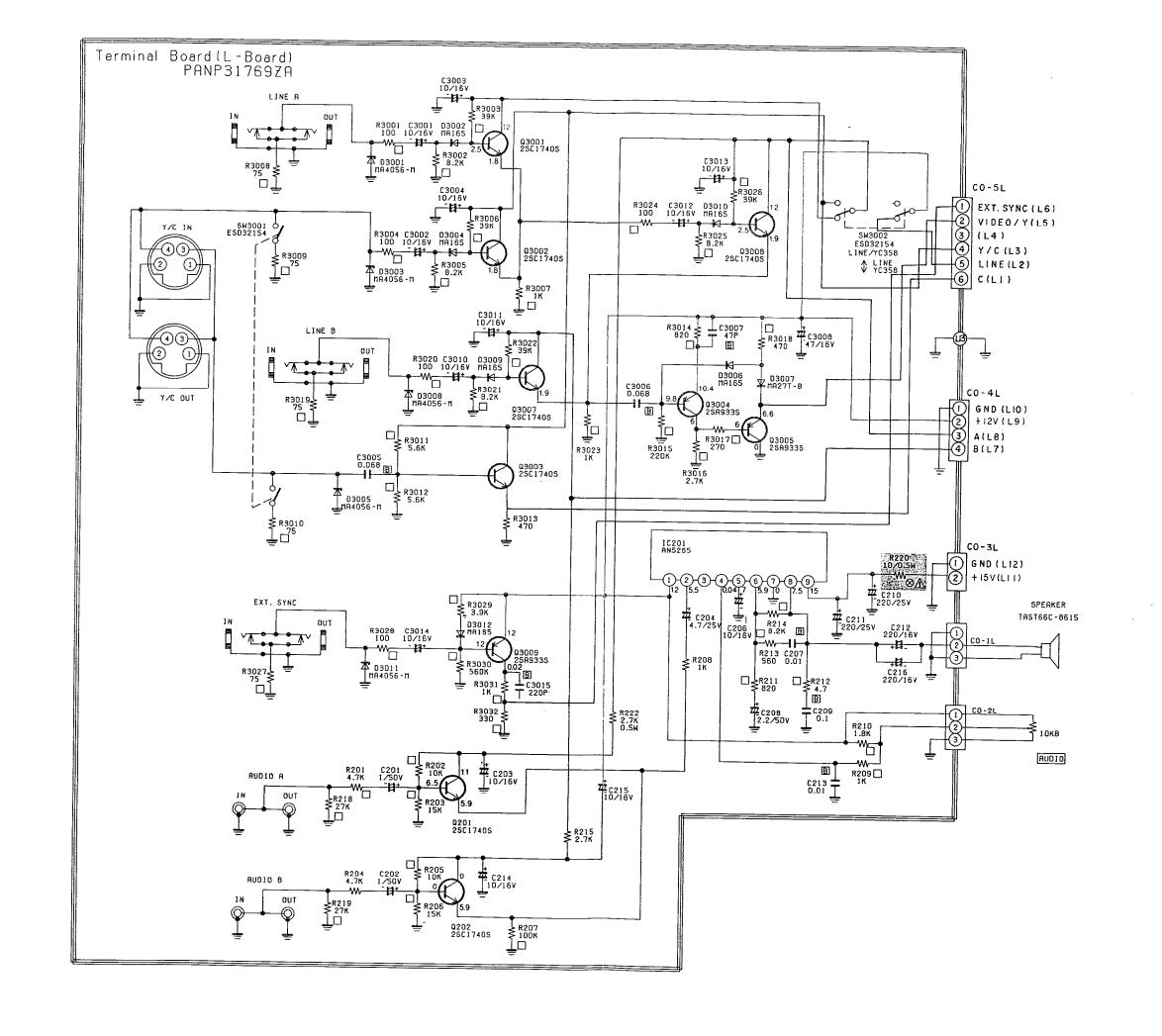


26

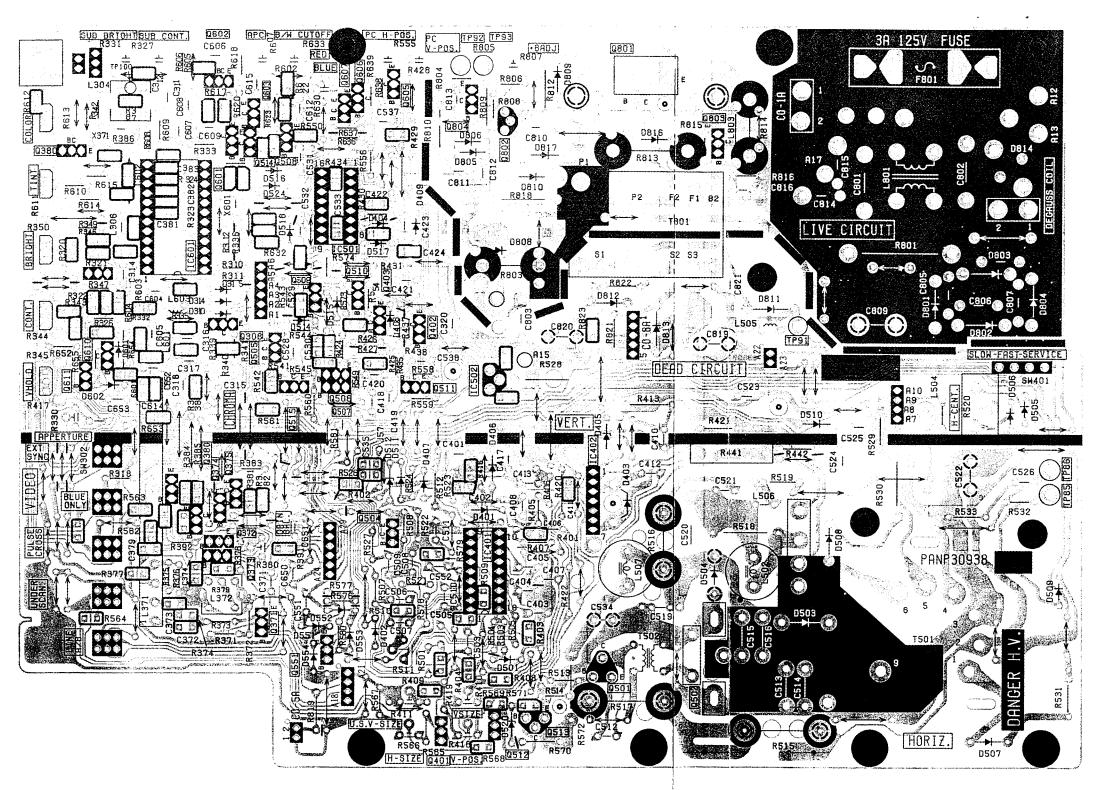
Terminal Board (L-Board)



PANP31769ZA/Solder Side View

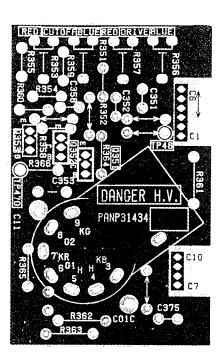


Main Board (A-Board)



PANP30938ZA/Solder Side View

Neck Board (C-Board)

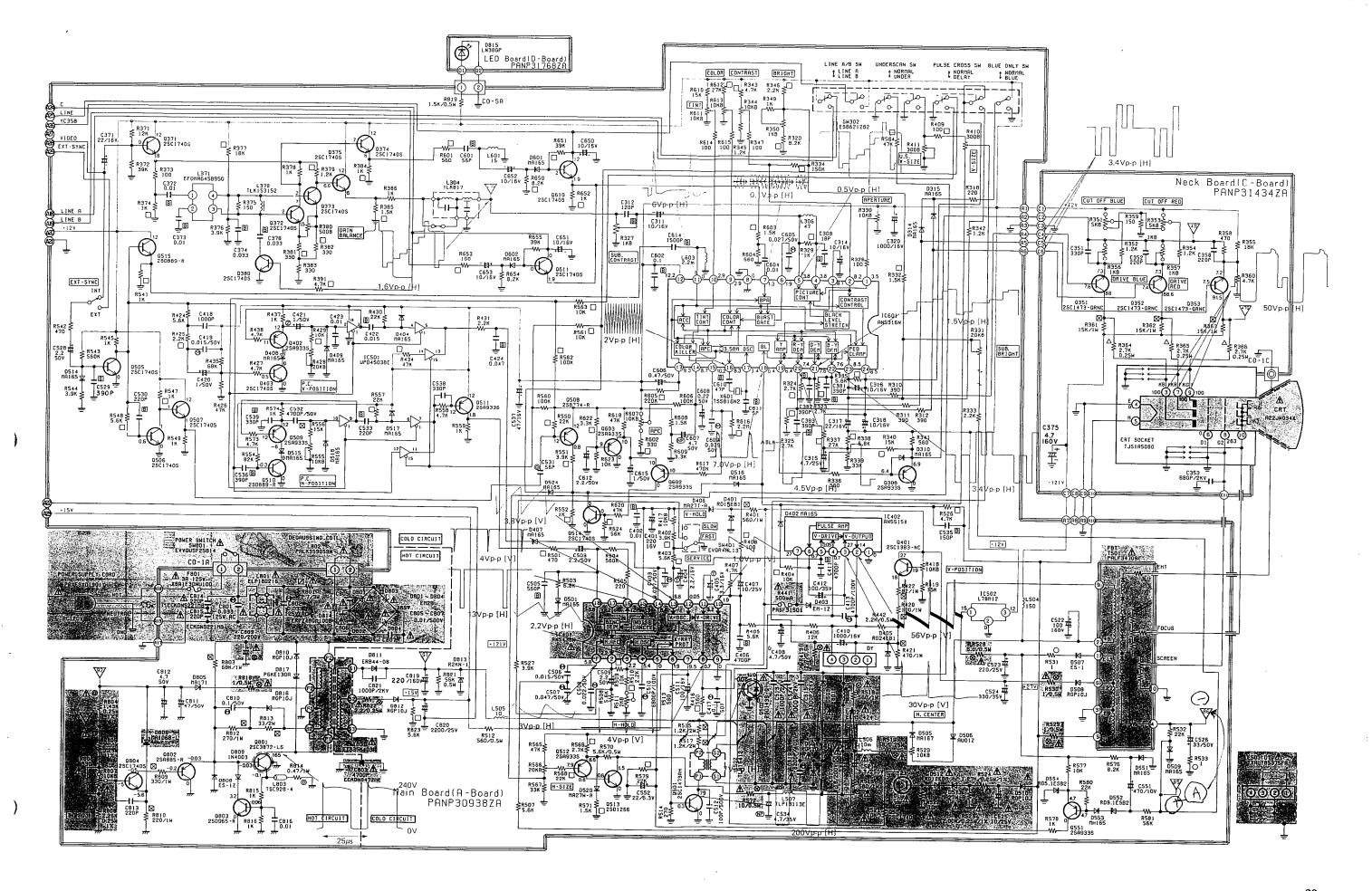


PANP31434ZA/Solder Side View

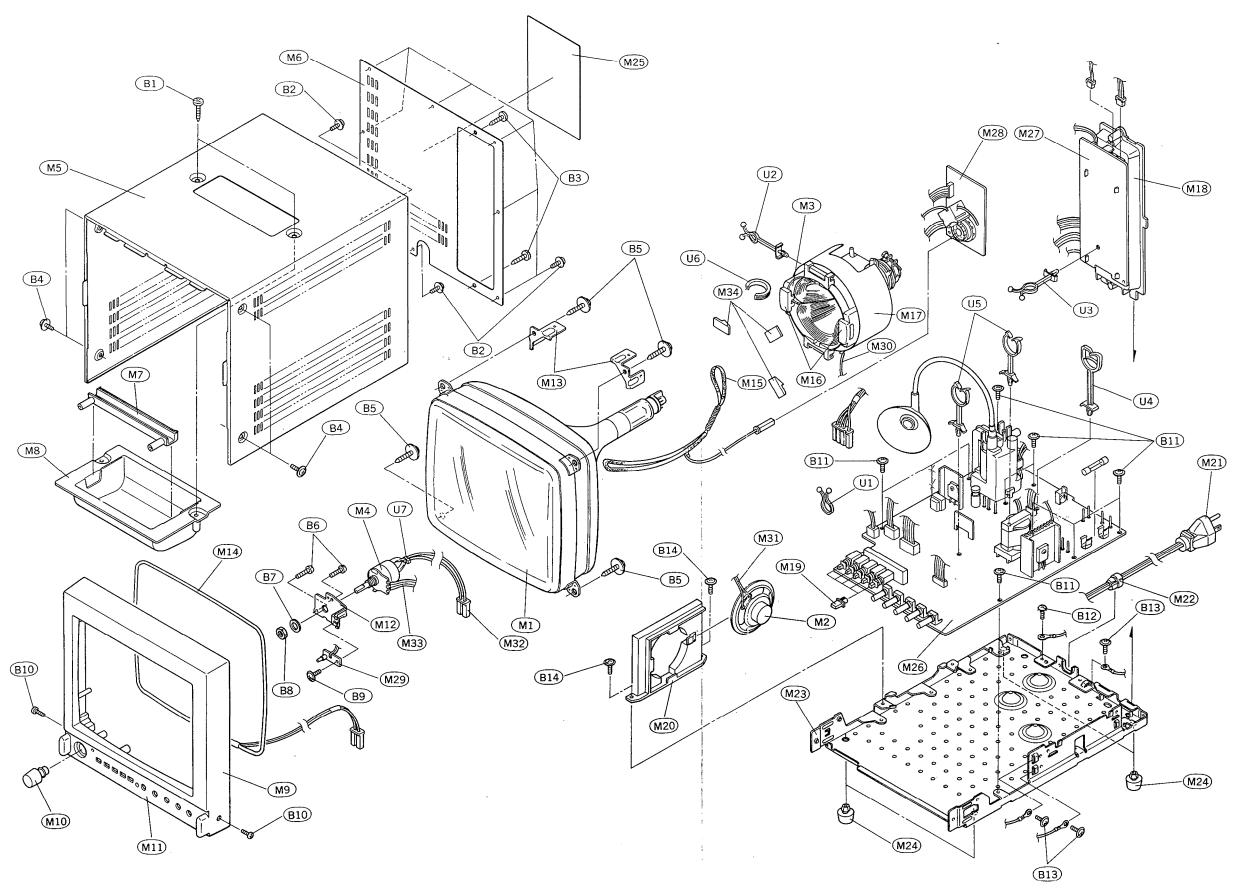
LED Board (C-Board)



PANP31768ZA/ Solder Side View



MECHANICAL PARTS LOCATION



Screws for BT-S901Y (Real Size)

(Hear Size)			
THE415-2	XYA4+EF8		
B5	B12		
(Black)			
XTW3+6LFZ	XTW3+6L		
B2, B4	B9, B11, B13, B14		
XTB4+15AFZ	XTV3+12G		
B1, B3	86		
XSN3+10S	XTN3+6FZ		
Screw/Q502	B10		
XYN3+C10	XYN3+C8		
Screw/Q801	Screw/IC402		

REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Warning -

After servicing R577 (H.V. ADJUST), cover the ocntrol volume with UL tube and fill up silicon rubber in it so as the volume is not turned.

RESISTOR PART NAME & DESCRIPTION TYPE **ALLOWANCE** C F Carbon ± 1%

F Fuse J ± 5% М Metal Oxide K ± 10% S Solid М ± 20% Wire Wound G ± 2%

Example:

Part No. ERD25TJ104

Description (C)

100K 🔾 1/4W

CAPACITOR

		PART NAME 8	& DE	SCRIPTION
		TYPE		ALLOWANCE
-	U U	Ceramic	С	± 0.25pF
	ш	Electrolytic	۵	± 0.5pF
	P	Polyester	F	± 1pF
	S	Styrol	J	± 5%
	۲	Tantalum	K	± 10%
	PP	Polypropylene	L	± 15%
			М	± 20%
			Р	+100%0%
			Z	+80% -20%

Part No.

Example: ECKF1H103ZF $0.01 \mu F$ (Z)

Description

50V

Mechanical Parts

No. Part No.		Part No.	Description
		MECHANICAL PAR	
		A22JWG34X	CRT
M	2	TAST66C-8615	Speaker
		TXALY85375FA	DY
M		EVVGU5F25B14	Power Switch 20210KohmB
M	5	PAKA3504	Top Cabinet
M	6	PAYK1S901Y	Back Cover Complete
M	7	TKK139208-1	Handle
M		PAKK358201	Handle Cover
		PAKE3505A01.	Front Cabinet Complete
M	10	TBX1353500	Power/Volume Knob
		PAKP3510060	Front Control Panel
M.	12	PAUX37901 PAUW35904	PowerSwitch Metal Bracket
M	13	PAUW35904	Top Cabinet Fix Metal
SH.	145	NPALK359059N#	Degaussing Coils
M	15		CRT Grounding Strap
	16	PAMX35902	DY Shield Case Bracket
		TUC245574**	DY Shield Case ** : 本語 #
M	18	PAJB356002	Terminal Board Holder
	19		Front Control Knob
<u> </u>	20	TMX13935-1	Speaker Bracket
引機	215	BAXESXO1901Y	Power Supply Cord (***
M	22	TMM14416	Power Cord Bushing
M	23		Base Frame
	24	TBL173302	Foot
	25	PABM375013	Name Plate
	26	PANP30938ZA	A-Board Complete
	27	PANP31769ZA	L-Board Complete
M	28	PANP31434ZA	C-Board Complete

No.		Part No.	Description
M	29	PANP31768ZA	D-Board Complete
M	30	PAXAJE01901Y	1P GND Lead
M	31	PAXAJT13901Y	Speaker Lead/CO-1L
M	32	PAXAJT03901Y	Power Switch Lead/CO-1A
M	33	PAXAJT02901Y	Volume Lead/CO-2L
М	34	TMM17538	DY Wedge
U	1_	TMM6463	Clamper
U	<u>2</u> 3	TMM16452	Clamper
U	3	TMM5439	Clamper
U	4	TMM15412-1	Clamper
IJ	5	TMM13497	Clamper
U	6	TMM6434	C Bushing
U	7	TMM17498	Plastic Wire Tie
В	1	XTB4+15AFZ	Screw/Handle
В	3	XTW3+6LFZ	Screw/Back Cover
В	3	XTB4+15AFZ	Screw/Term. Board Holder
В	4	XTW3+6LFZ	Screw/Top Cabinet
В	5	THE415-2	Screw/CRT
В	6	XTV3+12G	Screw/Power SW Fix Metal
В	7	THW40807-9	Washer/Power Switch
В	8	THN1948-2	Nut/Power Switch
В	9	XTW3+6L	Screw/D-Board
В	10	XTN3+6FZ	Screw/Base Frame
В	11	XTW3+6L	Screw/A-Board
В	12	XYA4+EF8	Screw/Power Cord GND Lead
В	13	XTW3+6L	Screw/1P GND Lead
В	14	XTW3+6L	Screw/Speaker Bracket

Main Board (A-Board)

No.	Part No.	Description	No.		Description
			R 404	ERJ8GEYJ103	C 10Kohm, J, 1/8W
	RESISTORS		R 405	ERDS2TJ562	C 5.6Kohm, J, 1/4W
R 310	ERDS2TJ391	C 390ohm, J, 1/4W	R 406	ERDS2TJ123	C 12Kohm, J, 1/4W
R 311	ERDS2TJ391	C 390ohm, J, 1/4W	R 407	ERDS2TJ472	C 4.7Kohm, J, 1/4W
	ERDS2TJ391	C 390ohm, J, 1/4W	R 408	ERJ8GEYJ101	C 100ohm, J, 1/8W
	ERDS2TJ221	C 220ohm, J, 1/4W	R 409	ERJ8GEYJ101	C 100ohm, J, 1/8W
R 320	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W	R 410	EVND8AAOOB32	V-Size 300ohmB
	ERJ8GEYJ272 ERJ8GEYJ272	C 2.7Kohm, J, 1/8W C 2.7Kohm, J, 1/8W	R 411 R 413	EVND8AAOOB32 ERQ12AJ2R7P	U.S. V-Size 300ohmB
		C 2.7Kohm, J, 1/8W C 2.7Kohm, J, 1/8W	W 412	LNGIZNJZNII	F 2.7ohm, J, 1/2W
		C 100ohm, J, 1/4W	R 416	ERJ8GEYJ561	C 560ohm, J, 1/8W
R 327	EVND2AA03B13	Sub. Contrast 1KohmB	R 417	EVUE20E25B14	V-Hold 10KohmB
N OL	BVINDERBIOODIO	oub; contrast inchimb	R 418	EVND8AAOOB14	V. Position 10KohmB
R 329	ERJ8GEYJ102	C 1Kohm, J, 1/8W	R 419	ERDS2TJ153	C 15Kohm, J, 1/4W
R 330	EVND2AA03B14	Aperture 10KohmB	R 420	ERG1SJ101P	M 100ohm, J, 1W
R 331	EVND2AA03B24	Sub. Bright 20KohmB	R 421	ERG1ANJ471H	M 470ohm, J, 1W
R 332		C 1.5Kohm, J, 1/8W	R 422	ERG1SJ820P	M 82ohm, J, 1W
	ERDS2TJ222	C 2.2Kohm, J, 1/4W	R 424	ERDS2TJ562	C 5.6Kohm, J, 1/4W
R 334	ERJ8GEYJ154	C 150Kohm, J, 1/8W	R 425	ERJ8GEYJ222	C 2.2Kohm, J, 1/8W
R 335	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W	R 426	ERDS2TJ473	C 47Kohm, J, 1/4W
	ERDS2TJ561	C 560ohm, J, 1/4W	D 405	170.00 m 1 1 m 2	
R 337	ERJ8GEYJ273	C 27Kohm, J, 1/8W	R 427	ERDS2TJ472	C 4.7Kohm, J, 1/4W
R 338	ERJ8GEYJ682	C 6.8Kohm, J, 1/8W	R 428	EVND2AA03B24	P.C.V-Position 20KohmB
D 220	ERDS2TJ333	C 22V 1 1 1/4U	R 429	ERJ8GEYJ103	C 10Kohm, J, 1/8W
R 339	ERJ8GEYJ153	C 33Kohm, J, 1/4W C 15Kohm, J, 1/8W	R 430	ERDS2TJ223	C 22Kohm, J, 1/4W C 2.2Kohm, J, 1/4W
R 341	ERDS2TJ561		R 431 R 434	ERDS2TJ222 ERJ8GEYJ473	
R 341	ERDS2TJ122	C 560ohm, J, 1/4W C 1.2Kohm, J, 1/4W	R 434	ERDS2TJ683	C 47Kohm, J, 1/8W C 68Kohm, J, 1/4W
R 343	ERJ8GEYJ472	C 4.7Kohm, J, 1/8W	R 437	ERDS2TJ1003	C 1Kohm, J, 1/4W
R 344	EVUE30E25B14	Contrast 10KohmB	R 438	ERDS2TJ472	C 4.7Kohm, J, 1/4W
R 345	ERDS2TJ122	C 1.2Kohm, J, 1/4W	R 441	PASF31501	Fuse 500mA
R 346	ERJ8GEYJ222	C 2.2Kohm, J, 1/8W			- A Company of the Co
R 347	ERDS2TJ101	C 100ohm, J, 1/4W	R 442	ERDS1TJ222	C 2.2Kohm, J, 1/2W
R 349	ERDS2TJ102	C 1Kohm, J, 1/4W	R· 501	ERJ8GEYJ471	C 470ohm, J, 1/8W
			R 503	ERDS2TJ682	C 6.8Kohm, J, 1/4W
R 350	EVUE30E25B13	Bright 1KohmB	R 504	ERDS2TJ564	C 560Kohm, J, 1/4W
R 371	ERDS2TJ123	C 12Kohm, J, 1/4W	R 505	ERDS2TJ221	C 220ohm, J, 1/4W
R 372	ERDS2TJ393	C 39Kohm, J, 1/4W	R 507	ERDS2TJ562	C 5.6Kohm, J, 1/4W
R 373	ERDS2TJ101	C 100ohm, J, 1/4W	R 508	ERDS2TJ562	C 5.6Kohm, J, 1/4W
R 374		C 1Kohm, J, 1/8W	R 509	ERJ8GEYJ103	C 10Kohm, J, 1/8W
R 375	ERDS2TJ151	C 150ohm, J, 1/4W	R 510	ERJ8GEYJ222	C 2.2Kohm, J, 1/8W
R 376	ERDS2TJ392	C 3.9Kohm, J, 1/4W	R 511	EVND8AA00B23	H-Hold 2KohmB
R 377	ERJ8GEYJ183	C 18Kohm, J, 1/8W	D 510	EDDC1TIEC1	C 500 1 1 1/0U
R 378	ERDS2TJ102 ERJ8GEYJ122	C 1Kohm, J, 1/4W C 1.2Kohm, J, 1/8W		ERDS1TJ561	C 560ohm, J, 1/2W C 560ohm, J, 1/4W
N 318	ENJOUEIJIZZ	C 1.2Kohm, J, 1/8W	R 513	ERDS2TJ561 ERDS2TJ271	C 560ohm, J, 1/4W C 270ohm, J, 1/4W
R 380	EVND8AA00B52	Gain Balance 500ohmB	R 514	ERG2ANJ122H	M 1.2Kohm, J, 2W
R 381	ERJ8GEYJ331	C 330ohm, J, 1/8W		ERQ1AJP561S	F 5606hm, J, 1V
R 382	ERJ8GEYJ331	C 330ohm, J, 1/8W	R 517	ERG2ANJ122H	M 1.2Kohm, J, 2W
R 383	ERDS2TJ331	C 330ohm, J, 1/4W			F 5600hm J 1 1 W
R 384	ERJ8GEYJ102	C 1Kohm, J, 1/8W			F 680hm, J, 1/4W
R 385	ERJ8GEYJ152	C 1.5Kohm, J, 1/8W		EVMJ6U10KB14	
R 386	ERDS2TJ102	C 1Kohm, J, 1/4W			C 10Kohn JJ 1/4V
R 391	ERJ8GEYJ472	C 4.7Kohm, J, 1/8W			
R 401	ERG1SJ561P	M 560ohm, J, 1W	R 522	ERDS2TJ103	C 10Kohm, J, 1/4W
R 402	ERJ8GEYJ392	C 3.9Kohm, J, 1/8W	R 523	EROS2CKF2001	M 2.00Kohn, F: 1/4W
			R 524	EROS2CKF1271	M-1.27Kohn, F, 1/4W
R 403	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W	R 526	ERJ8GEYJ472	C 4.7Kohm, J, 1/8W

BT-S901

N.	Dant Na	Decemintion	No.	Part No.	Description
No. R 527	Part No. ERDS2TJ392	Description C 3.9Kohm, J, 1/4W		ERDS2TJ332	C 3.3Kohm, J, 1/4W
	ERQ12HJ6R8P	F 6.8ohm, J, 1/2W		ERDS2TJ153	C 15Kohm, J, 1/4W
	ERQ12AZJ1ROP	F 10hm, J, 1/2W	R 611	EVUE20E25B14	Tint 10KohmB
	ERQ12HJ1ROP	F 10hm, J, 1/2W	N OII	LVOLLODIT	TITE TOROTHED
	ERD25FJ1R0P	C 10hm, J, 1/4W	P 612	ERJ8GEYJ273	C 27Kohm, J, 1/8W
	ERDS2TJ223	C 22Kohm, J, 1/4W	R 613	EVUE20E25B14	Color 10KohmB
K 552	EKUSZ I J Z Z S	C ZZKONE, J, 1/4W	R 614	ERDS2TJ101	C 100ohm, J, 1/4W
D E22	ERD25FJ1R0P	C 1ohm, J, 1/4W	R 615	ERDS2TJ101	C 1000hm, J, 1/4W
R 541	ERJ8GEYJ102	C 10hm, J, 1/4W C 1Kohm, J, 1/8W	R 616	ERJ8GEYJ225	C 2.2Mohm, J, 1/8W
	ERDS2TJ471	C 470ohm, J, 1/4W	R 617	ERDS2TJ474	C 470Kohm, J, 1/4W
	ERDS2TJ564	C 560Kohm, J, 1/4W	R 618	ERDS2TJ473	C 47Kohm, J, 1/4W
	ERDS2TJ392	C 3.9Kohm, J, 1/4W		ERDS2TJ473	C 47Kohm, J, 1/4W
	ERDS2TJ102	C 1Kohm, J, 1/4W	R 622	ERJ8GEYJ332	C 3.3Kohm, J, 1/8W
	ERJ8GEYJ102	C 1Kohm, J, 1/8W	R 623	ERDS2TJ103	C 10Kohm, J, 1/4W
	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W	N UZJ	ENDSZIOIVS	C IVROIM, 0, 17 TW
	ERDS2TJ102	C 1Kohm, J, 1/4W	R 624	ERJ8GEYJ563	C 56Kohm, J, 1/8W
	ERJ8GEYJ223	C 22Kohm, J, 1/8W	R 650	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W
V 990	ENJOUE 11223	C ZZRUHW, J, I/OW	R 651	ERJ8GEYJ393	C 39Kohm, J, 1/8W
D EE1	ERJ8GEYJ392	C 3.9Kohm, J, 1/8W	R 652	ERJ8GEYJ102	C 1Kohm, J, 1/8W
	ERJ8GEYJ102	C 1Kohm, J, 1/8W	R 653	ERJ8GEYJ101	C 100ohm, J, 1/8W
	ERDS2TJ823	C 82Kohm, J, 1/4W	R 654	ERDS2TJ822	C 8.2Kohm, J, 1/4W
	EVND2AA03B14	P.C.H-Position 10KohmB	R 655	ERDS2TJ393	C 39Kohm, J, 1/4W
	ERDS2TJ153	C 15Kohm, J, 1/4W		ERF3AK2R7	W 2.7ohm, K, 3W
	ERJ8GEYJ223	C 22Kohm, J, 1/8W	R 803		M 68Kohm, J, 1W
	ERDS2TJ472	C 4.7Kohm, J, 1/4W	R 804		M 1.43Kohm, F, 1/4W
	ERDS2TJ102	C 1Kohm, J, 1/4W	N. Ou.	DIVOCO IN 1101	
	ERDS2TJ104	C 100Kohm, J, 1/4W	R 805	FROS2CKF2001	M 2.00Kohm, F, 1/4W
R 561		C 10Kohm, J, 1/8W		ERDS2TJ331	C 330ohm; J, 1/4W
K 301	LK80GLT8103	C TORONIM, 8, 17 OW		EVND8AAOOB14	
R 562	ERJ8GEYJ104	C 100Kohm, J, 1/8W		EROS2CKF2261	M 2.26Kohm, F, 1/4W
	ERJ8GEYJ103	C 10Kohm, J, 1/8W	R 809	ERG1SJ331P	M 330ohm, J, 1W
R 564		C 47Kohm, J, 1/8W	R 810	ERG1SJ221P	M 220ohm, J, 1W
R 565		C 47Kohm, J, 1/4W	R 812	ERG1SJ271P	M 270ohm, J, 1W
R 566			R 813	ERG2ANJ330H	M 33ohm, J, 2W
R 567		C 33Kohm, J, 1/4W	R 814	ERX1ANJPR47S	M 0.47ohm, J, 1W
	ERJ8GEYJ223	C 22Kohm, J, 1/8W	R 815	ERDS2TJ102	C 1Kohm, J, 1/4W
	ERJ8GEYJ272	C 2.7Kohm, J, 1/8W			·
R 570	ERDS1TJ562	C 5.6Kohm, J, 1/2W	R 816		C 1Kohm, J, 1/4W
R 571	ERJ8GEYJ152	C 1.5Kohm, J, 1/8W			F lohm, J, 1/2V
			R 819	ERDS1TJ152	C 1.5Kohm, J, 1/2W
		F 10ohm, J, 1/2V	R 821	ERDS1TJ563	C 56Kohm, J, 1/2W
	ERDS2TJ472	C 4.7Kohm, J, 1/4W		ERQ14AJ2R2P	F 2.20hm, J, 1/4V
	ERDS2TJ102	C 1Kohm, J, 1/4W	R 823	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W
	ERDS2TJ822	C 8.2Kohm, J, 1/4W		CADACIMORG	~
R 577		C 10Kohm, J, 1/4W	0.000	CAPACITORS	C 10_E I FAU
	ERDS2TJ102	C 1Kohm, J, 1/4W		ECUX1H180JCM	C 18pF, J, 50V
R 579		C 22Kohm, J, 1/8W	C 311	ECEA1CU100	E 10uF, 16V C 120pF, K, 50V
	ERDS2TJ223	C 22Kohm, J, 1/4W	C 312	ECUX1H121KCM	
R 581		C 56Kohm, J, 1/4W	C 314		E 10uF, 16V E 4.7uF, 25V
R 601	ERJ8GEYJ561	C 560ohm, J, 1/8W	C 315	ECEA1EU4R7 ECEA1CU100	E 4.70F, 25V
D GAO	ED TOURY 1991	C 220ab - I 1/9U	C 317	ECEA1CU220	E 22uF, 16V
R 602		C 15Vohm J 1/8W	C 318	ECEAICU100	E 10uF, 16V
R 603		C 1.5Kohm, J, 1/8W	C 320	ECEA1CU100	E 1000uF, 16V
R 604 R 605		C 560ohm, J, 1/4W	C 371	ECEA1CU220	E 22uF, 16V
R 606		C 220Kohm, J, 1/8W C 100Kohm, J, 1/4W	0 311	LOUITOULL	L LLui, 104
R 607			C 372	ECHX1H1037FM	C 0.01uF, Z, 50V
	ERDS2TJ152	C 1.5Kohm, J, 1/4W	C 373		
_ W 000	PINDS 19 197	U 1.JAUHH, J, 1/4W	0 010	I POOUTHIANDLE	0 0.01di

No. Part No. Description	No. Part No. Description
C 374 ECUX1H333KBH C 0.033uF, K, 50V	C 536 ECUX1H391KBM C 390pF, K, 50V
C 375 ECEA2CU4R7 E 4.7uF, 160V	C 537 ECEA1CU470 E 47uF, 16V
C 378 ECUX1H333KBH C 0.033uF, K, 50V	C 538 ECKF1H331KB C 330pF, K, 50V
C 381 ECUX1H391KBM C 390pF, K, 50V	C 539 ECUX1H331KBM C 330pF, K, 50V
C 382 ECUX1H391KBM C 390pF, K, 50V	C 551 ECEA1AU471 E 470uF, 10V
C 383 ECUX1H391KBM C 390pF, K, 50V	
C 401 ECEA1CU221 E 220uF, 16V	C 552 ECEA0JU220 E 22uF, 6.3V
C 402 ECUX1H103ZFM C 0.01uF, Z, 50V	C 601 ECUX1H560JCM C 56pF, J, 50V
C 403 ECQM1H273KV P 0.027uF, K, 50V	C 602 ECUX1H104ZFM C 0.1uF, Z, 50V
C 404 ECSF1CE225 T 2.2uF, 16V	C 604 ECKF1H103ZF C 0.01uF, Z, 50V
C 405 ECSF1CE335 T 3.3uF, 16V	C 605 ECQM1H273KV P 0.027uF, K, 50V
C 406 ECUX1H472KBM C 4700pF, K, 50V	C 606 ECEA1HUR47 E 0.47uF, 50V
C 407 ECEA1EU100 E 10uF, 25V	C 607 ECEA1HN4R7S E 4.7uF, 50V
C 408 ECEA1HU4R7 E 4.7uF, 50V	C 608 ECEA1HUR22 E 0.22uF, 50V
C 410 ECEA1CU102 E 1000uF, 16V	C 609 ECQM1H393KV P 0.039uF, K, 50V
C 411 ECUX1H472KBM C 4700pF, K, 50V	C 610 ECUX1H470JCM C 47pF, J, 50V
C 412 ECEA1VU101 E 100uF, 35V	
C 413 ECQM1472KZ P 4700pF, K, 100V	C 611 ECUX1HO5ODCM C 5pF, D, 50V
C 417 ECQM1H104KV P 0.1uF, K, 50V	C 612 ECEA1HU2R2 E 2,2uF, 50V
G 440 NGWRAMAOND G 4000 D W FON	C 614 ECUX1H152KBM C 1500pF, K, 50V
C 418 ECKF1H102KB C 1000pF, K, 50V	C 615 ECEA1HUO10 E 1uF, 50V
C 419 ECQM1H153KV P 0.015uF, K, 50V	C 650 ECEA1CU100 E 10uF, 16V
C 420 ECEA1HU010 E 1uF, 50V	C 651 ECEAICU100 E 10uF, 16V
C 421 ECEA5OZ1B E 1uF, 50V	C 652 ECEA1CU100 E 10uF, 16V
C 422 ECUX1H153KBM C 0.015uF, K, 50V	C 653 ECEA1CU100 E 10uF, 16V
C 423 ECKF1H103ZF C 0.01uF, Z, 50V	C 801 ECQU1A333MH P 0.033uF, M, 125VAC
C 424 ECUX1H473ZFM C 0.047uF, Z, 50V C 503 ECEA1HU2R2 E 2.2uF, 50V	C 802 ECQUIA333MH P. 0.033uF, M, 125VAC
C 503 ECEA1HU2R2 E 2.2uF, 50V C 505 ECUX1H561KBM C 560pF, K, 50V	COAS TROUBLE C AZAA D 10 LIAC
C 506 ECQM1H153KV P 0.015uF, K, 50V	C 803 ECKDNS472ME C 4700pF, 125VAC
C 300 ECQMINISSKY F 0.013ur, K, 304	C 805 ECKD2H103PU7 C 0.01uF, P, 500V C 806 ECKD2H103PU7 C 0.01uF, P, 500V
C 507 ECQM1H473KV P 0.047uF, K, 50V	C 806 ECKD2H103PU7 C 0.01uF, P, 500V C 807 ECKD2H103PU7 C 0.01uF, P, 500V
C 508 ECQM1H223KV P 0.022uF, K, 50V	C 809 ECET2DR221SW E 220uF, 200V
C 509 ECEA1HU2R2 E 2.2uF, 50V	C 810 ECQM1H104KV P 0.1uF, K, 50V
C 510 ECQK1682JZ P 6800pF, J, 100V	C 811 ECEA1HU470 E 47uF, 50V
C 511 ECEA1CU101 E 100uF, 16V	C 812 ECEA1HU4R7 E 4.7uF, 50V
C 512 ECKD2H101KB2 C 100pF, K, 500V	C 813 ECKF1H221KB C 220pF, K, 50V
C 513 ECKD3D102JBN C 1000pF J, 2KV	C 814 ECKDNS221MB C 220pF, 125VAC
C#5144 ECKD3D102UBNEX C #1000PB 213 2KV	O O C LES ELOND HOUSE LID 1. O SER SEC VEL 1 SEC 1 LEU 1 10
C 5157 ECKD3D152JBN C 1500pF; J, 2KV	C 815 ECKDNS221MB C 220pF; 125VAC
C 519) ECQN4822JZ PV 8200pF, J, 400V	C 816 ECKF1H103ZF C 0.01uF, Z, 50V
	C 819 ECEA2CU221W E 220uF, 160V
C=520 ECQE2H184JZ PPI0:18uF, J; 200V	C 820 ECEA1EU222 E 2200uF, 25V
C 521 ECEAZEU3R3 E 3.3uF, 250V	C 821 ECKD3D102KBN C 1000pF, K, 2KV
C 522 ECEA2CU101 E 100uF, 160V	
C 523 ECEA1EU221 E 220uF, 25V	DIODES
C 524 ECEA1VU331 E 330uF, 35V	D 310 MA165 Diode
C 525 MECEATEU400 E E M 10 UF; SELLY 25 V S	D 314 MA165 Diode
C 526 ECEA1HU330 E 33uF, 50V	D 315 MA165 Diode
C 528 ECEA1HU2R2 E 2.2uF, 50V	D 401 TVSRD15EB1 Zener Diode Vz=15V
C 529 ECUX1H391KBM C 390pP, K, 50V	D 402 MA165 Diode
C 530 ECUX1H221KBM C 220pF, K, 50V	D 403 TVSEM-1Z Diode
a For Page visco	D 404 MA165 Diode
C 531 ECCF1H560J5 C 56pF, J, 50V	D 405 TVSRD24EB1 Zener Diode Vz=24V
C 532 ECQP1H472JZ PP 4700pF, J, 50V	D 406 MA27T-A Diode
C 533 ECUX1H221KBM C 220pF, K, 50V	D 407 MA165 Diode
C 534 ECEA35W4R7Q E 4.7uF, 35V	D 400 14125
C 535 ECUX1H151KCM C 150pF, K, 50V	D 408 MA165 Diode

No.	Part No.	Description	No.	Part No.	Description
D 409	MA165	Diode	L 505	TLT100K991R	Peaking Coil
D 501	MA165	Diode	L 506	TLTAMSKI103K	Peaking Coil
D-503	ES01F	Diode	L 507	TLP13113E	Choke Coil
D 504	TVSRGP10J	Diode	L 601	TLUABTA150K	Peaking Coil
D 505	MA167	Diode			
D 506	AU01Z	Diode	L 603	TLT222K993G	Peaking Coil
D 507	TVSES-1	Diode	L 801	ELF18D216	Line Filter
D 508	TVSRGP10J	Diode	L 803	TSC928-4	Ferrite Choke
D 509	MA165	Diode			
				TRANSISTORS	
D 510	TVSRGP10J	Diode	Q 308	2SA933S	Video Buffer
	MA27W-A	Diode	Q 371	2SC1740S	Video Buffer
D 512	TVSRD12EBM	Zener Diode Vz=12V	Q 372	2SC1740S	Differential Amp.
D 514	MA165	Diode	Q 373	2SC1740S	Differential Amp.
D 515	MA165	Diode	Q 374	2SC1740S	Chroma Buffer
D 516	MA165	Diode	Q 375	2SC1740S	Video Buffer
D 517	MA165	Diode	Q 380	2SC1740S	Comb Switch
D 518	MA165	Diode	Q 401	2SC1383-NC	V. Position
D 520	MA27W-A	Diode	Q 402	2SA933S	V. Sync Delay
D 524	MA165	Diode	Q 403	2SC1740S	V. Sync Delay
D 551	144105	D: 1	0 501	2001 472 AU	II Drive
D 551	MA165	Diode	Q 501	2SC1473AH	H. Drive
D 552	TVSRD9. 1ESB2	Zener Diode Vz=9.1V	Q 502	2SD1439-Q	H. Output
D 553	MA165	Diode	Q 504	2SC1740S	X-Ray Protector
D 554	TVSRD5.1ESB2		Q 505	2SC1740S	Sync Separator
D 601	MA165	Diode	Q 506	2SC1740S	Sync Inverter
D 602	MA165	Diode	Q 507	2SC1740S	Sync Buffer Sync Differential
D 801	EM2B	Diode	Q 508	2SB774-R 2SA933S	
D 802	EM2B	Diode	Q 509 Q 510	2SD889-R	H. Sync Delay H. Sync Delay
D 803	EM2B	Diode Diode	Q 511	2SA933S	H. Sync Inverter
D 804	EM2B	V10de	<u>a</u> 211	ZSHUSSS	n. Sync inverter
D OVE	WA171	D:-J-	Q 512	2SA933S	H. Size/Under Scan
D 805	MA171	Diode Vz=6.8V	Q 513		H. Size/Under Scan
D 808	TVSES-1Z	Diode VZ-0.0V	Q 514		Burst Color Killer
D 809	1N4003	Diode	Q 515	2SD889-R	Sync Buffer
D 810		Diode	0.551	2SA933S	Current Protector
D 811	ERB44-08	Diode	Q 602	2SA933S	Burst Color Killer
D 812		Diode	Q 603		Burst Color Killer
D 813		Diode	Q 610		Chroma Amp.
	ERPZ4BOM100B	Posistor	Q 611	2SC1740S	Chroma Amp.
	TVSRGP10J	Diode	Q 801	2SC3872-LS	Power Switching Output
D 817		Diode			
D 011	1 OKLIDON	Diode	Q 802	2SA885-R	Drive/Q801
	INTEGRATED CIR	CHITS	Q 803		Current Protector
TC 4012	AN5436N		Q 804	2SC1740S	Error Detector
IC 402		V. Deflection Output			
IC 501		3 State Driver	1	TRANSFORMERS	
	L78M12	+12V Regulator	T 501	PALF34709F	FBT
IC 601		Video/ChromaSignalProcess		TLH15412	H. Drive Trans.
10 001	1.11.001011	, , , acc, oil omas Ignati i occas		ETS35K403A	Power Switching Trans.
	COILS	1			
L 304		Delay Line		OTHERS ·	
	TLT470K266	Peaking Coil	X 601	TSS816N2	Crystal Osc.
L 371	EFDMA645B95G	Delay Line(1H)	SW 302	ESB621282	Function Switch
L 372		Peaking Coil	SW 401	EVQR4AL13	Service Switch
	ELH5L424	Linearity Coil	F-801		Füse 125V/3A
L 504		Peaking Coil	A17	PAXAJE04901Y	1P GND Lead

No.	Part No.	Description
A18-A21	PAXAJT08901Y	4P Coupler/CO-4L
A22-A23	PAXAJT06901Y	2P Coupler/CO-3L
A24-A29	PAXAJT09901Y	6P Coupler/CO-5L
CO-5A	TJS168960	2P Connector
A-1	TMM13497	Clamper
A-2	TMM13497	Clamper
A-3	TMM15412-1	Clamper
	XTV3+8B	Screw/FBT
	XNG3BS	Nut/IC402
	XYN3+C8	Screw/IC402
	TUC27735-1	Heat Sink/IC402
	N018K	Mica Sheet/Q502
	TUC37746	Heat Sink/Q502
	XNG3BS	Nut/Q502
	XSN3+10S	Screw/Q502
	XWA3B	Washer/Q502
	XWG3	Washer/Q502
	PAUC35601	Heat Sink/Q801
	XWG3	Washer/Q801
	XYN3+C10	Screw/Q801
	TJS5A9310	4P Cable Holder
	TJS5A9330	6P Cable Holder

No.	Part No.	Description
Q 353	2SC1473-QRNC	Video Output
	OTHERS	
TJS1A5080		CRT Socket
	TJS5A9310	4P Cable Holder
	TJS5A9330	6P Cable Holder

Description

Terminal Board (L-Board)

Part No.

No.

		RESISTORS	
	R 201	ERJ8GEYJ472	C 4.7Kohm, J, 1/8W
	R 202	ERJ8GEYJ103	C 10Kohm, J. 1/8W
	R 203	ERJ8GEYJ153	C 15Kohm, J, 1/8W
	R 204	ERDS2TJ472	U 4./Kohm. J. 1/4W
	R 205	ERJ8GEYJ103	C 10Kohm, J, 1/8W
	R 206	ERJ8GEYJ153	C 15Kohm, J, 1/8W
	R 207	ERJ8GEYJ104	C 100Kohm, J, 1/8W
	R 208	ERDS2TJ102	C 1Kohm. J. 1/4W
	R 209	ERJ8GEYJ102	C 1Kohm, J, 1/8W
	R 210	ERJ8GEYJ182	C 1.8Kohm, J, 1/8W
	R 211	ERJ8GEYJ821	C 820ohm, J, 1/8W
_	R 212	ERJ8GEYJ4R7	C 4.7ohm, J, 1/8W
	R 213	ERJ8GEYJ561	C 560ohm, J, 1/8W
	R 214		C 8.2Kohm, J, 1/8W
	R 215		C 2.7Kohm, J. 1/4W
	R 218	ERJ8GEYJ273	C 27Kohm, J, 1/8W
	R 219	ERJ8GEYJ273	L Z/Konm, J, I/OW
	R 220	ERQ12AJ100P	F 10ohm, J, 1/2W
	R 222	ERDS1TJ272	C 2.7Kohm, J, 1/2W
	R3001	ERJ8GEYJ101	C 100ohm, J, 1/8W
	R3002	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W
_	R3003	ERJ8GEYJ393	C 39Kohm, J, 1/8W
	R3004	ERJ8GEYJ101	C 100ohm, J, 1/8W
	R3005	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W
_	R3006	ERJ8GEYJ393	C 39Kohm, J, 1/8W
	R3007	ERJ8GEYJ102	C 1Kohm, J, 1/8W
_	R3008	ERJ8GEYJ750	C 75ohm, J, 1/8W
_	R3009	ERJ8GEYJ750	C 75ohm, J, 1/8W
-	R3010	ERJ8GEYJ750	C 75ohm, J, 1/8W
_	R3011	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W
_	20010	DD TOODULTEOO	G F 07 1 1 (01)
	R3012	ERJ8GEYJ562	C 5.6Kohm, J, 1/8W
_	R3013	ERDS2TJ471	C 470ohm, J, 1/4W
_	R3014	ERJ8GEYJ821	C 820ohm, J, 1/8W
_	R3015	ERJ8GEYJ224	C 220Kohm, J, 1/8W
	R3016	ERJ8GEYJ272	C 2.7Kohm, J, 1/8W
-	R3017	ERJ8GEYJ271	C 270ohm, J, 1/8W
	R3018	ERJ8GEYJ471	C 470ohm, J, 1/8W
-	R3019	ERJ8GEYJ750	C 750hm, J, 1/8W
-	R3020	ERJ8GEYJ101	C 100ohm, J, 1/8W
	R3021	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W

Neck Board (C-Board)

No.	Part No.	Description		
	RESISTORS			
R 351	EVN61AA00B53	Cut Off Blue 5KohmB		
R 352		C 1.2Kohm, J, 1/4W		
R 353				
R 354	ERDS2TJ122	C 1.2Kohm, J, 1/4W		
R 355	ERDS2TJ183	C 18Kohm, J, 1/4W		
R 356	EVN61AA00B13	Drive Blue 1KohmB		
R 357	EVN61AAOOB13	Drive Red 1KohmB		
R 358	ERDS2TJ471	C 470ohm, J, 1/4W C 150ohm, J, 1/4W		
R 359	ERDS2TJ151	C 150ohm, J, 1/4W		
R 360	ERDS2TJ472	C 4.7Kohm, J, 1/4W		
R 361	ERG1SJ153P	M 15Kohm, J, 1W		
R 362	ERG1SJ153P	M 15Kohm, J, 1W		
R 363	ERG1SJ153P	M 15Kohm. J. 1W		
R 364	ERC14GK272	S 2.7Kohm, K, 1/4W S 2.7Kohm, K, 1/4W		
R 365	ERC14GK272	S 2.7Kohm, K, 1/4W		
R 366	ERC14GK272	S 2.7Kohm, K, 1/4W		
	CAPACITORS			
C 351	ECKF1H331KB	C 330pF, K, 50V		
C 352	ECKF1H221KB	C 220pF, K, 50V		
C 353		C 680pF, K, 2KV		
C 358	ECKF1H221KB	C 220pF, K, 50V		
TRANSISTORS				
Q 351	2SC1473-QRNC	Video Output		
Q 352	2SC1473-QRNC	Video Output		

No.	Part No.	Description 1/94
R3022	ERJ8GEYJ393	C 39Kohm, J, 1/8W
R3023	ERJ8GEYJ102	C 1Kohm, J, 1/8W
	ERJ8GEYJ101	C 100ohm, J, 1/8W
	ERJ8GEYJ822	C 8.2Kohm, J, 1/8W
	ERJ8GEYJ393	C 39Kohm, J, 1/8W
R3027	ERJ8GEYJ750	C 75ohm, J, 1/8W
R3028	ERJ8GEYJ101	C 100ohm, J, 1/8W
	ERJ8GEYJ392	C 3.9Kohm, J, 1/8W
	ERJ8GEYJ564	C 560Kohm, J, 1/8W
	ERJ8GEYJ102	C 1Kohm, J, 1/8W
R3032	ERJ8GEYJ331	C 330ohm, J, 1/8W
ROUL	BROOMBIOODI	
1	CAPACITORS	
	ECEA1HU010	E 1uF, 50V
	ECEATHUO10	E 1uF, 50V
	ECEATOUTO ECEATOUTO	E 10uF, 16V
C 203	ECEATEU4R7	E 10uF, 16V E 4.7uF, 25V
C 204	ECEATEU4K7	E 10uF, 16V
		E 10uF, 16V C 0.01uF, Z, 50V
	ECUX1H103ZFM	C 0.01ur, 2, 50V
	ECEA1HU2R2	E 2.2uF, 50V C 0.1uF, Z, 50V
	ECUX1H104ZFM	C 0.1uF, Z, 50V
C 210	ECEA1EU221	E 220uF, 25V
C 211	ECEA1EU221	E 220uF, 25V
	ECEA1CU221	E 220uF, 16V
C 213	ECUX1H103ZFM	C 0.01uF, Z, 50V
C 214	ECEA1CU100	E 10uF, 16V
C 215	ECEA1CU100	E 10uF, 16V
C 216	ECEA1CU221	E 220uF, 16V
C3001		E 10uF, 16V
	ECEA1CU100	E 10uF, 16V
	ECEA1CU100	E 10uF, 16V
	ECEA1CU100	E 10uF, 16V
C3005	ECUX1H683ZFH	C 0.068uF, Z, 50V
03003	ECONTHOCOR! II	0 0.000dr, 2, 00.
C2006	ECHVIUS 27FH	C 0.068uF, Z, 50V
C3000	ECUX1H470JCM	C 47pF, J, 50V
C3007		
C3008	ECEA1CU470	E 47uF, 16V E 10uF, 16V
C3010		
C3011	ECEA1CU100	E 10uF, 16V
C3012		E 10uF, 16V
C3013		E 10uF, 16V
C3014		E 10uF, 16V
C3015	ECUX1H221JCM	C 220pF, J, 50V
	DIODES	
D3001		Zener Diode Vz=5.6V
	MA165	Diode
D3003	MA4056-M	Zener Diode Vz=5.6V
D3004		Diode
D3005		Zener Diode Vz=5.6V
D3006		Diode
D3007		Diode
D3008		Zener Diode Vz=5.6V
D3009		Diode
	MA165	Diode
		Zener Diode Vz=5.6V
D3011		
D3012	MA165	Diode

No.	Part No.	Description			
110.	141 0 1101	2000.1,1000.			
INTEGRATED CIRCUITS					
IC 201	AN5265	Audio Output			
TRANSISTORS					
Q 201	2SC1740S	Audio Buffer			
Q 202	2SC1740S	Audio Buffer			
Q3001	2SC1740S	Video Buffer			
Q3002	2SC1740S	Video Buffer			
Q3003	2SC1740S	Video Buffer			
Q3004		Video Amp & Clamp			
Q3005	2SA933S	Video Buffer			
Q3007	2SC1740S	Video Buffer			
Q3008	2SC1740S	Video Amp & Clamp			
Q3009	2SA933S	Ext. Sync Buffer			
	AMILED A				
~~~~	OTHERS				
SW3001	ESD32154	75Ω/HI-Z Change			
SW3002	ESD32154	Video/S-Video Change			
L13	PAXAJE03901Y	1P GND Lead			
CO-1L	TJS169070	3P L-Type Connector			
C0-2L	TJS169071	3P L-Type Connector			
CO-3L	TJS169060	2P Connector			
CO-4L	TJS168980	4P Connector			
CO-5L	TJS169010	6P Connector			
L-1	TMM5439	Clamper			
	PAMM35405	2P Cable Holder			
	TJS5A9310	4P Cable Holder			
	TJS5A9330	6P Cable Holder			

### LED Board (C-Board)

No.	Part No.	Description		
1	DIODES			
D 815	LN38GP	LED		
OTHERS				
	KL-02	LED Spacer		
D1-D2	PAXAJT07901Y	2P Coupler/CO-5A		

### **Packing Parts**

ο.	Part No.	Description		
PACKING				
1	PAPC3511001	Packing Case		
2	PAPD351009	Cushion(Top Front)		
3	PAPD351010	Cushion(Top Rear)		
4	PAPD352009	Cushion (Bottom Front)		
5	PAPD352010	Cushion(Bottom Rear)		
6	PAQB310026	Operating Instructions		
7	TQB817002-1	Safety Instructions		
8	TQD67180631A	Warranty Card		
9	VQA0053	Service Center List		
10	TQE616	Cover for 0/I		
11	TPE114115	Cover for Unit		
	1 2 3 4 5 6 7 8 9	PACKING  1 PAPC3511001  2 PAPD351009  3 PAPD351010  4 PAPD352009  5 PAPD352010  6 PAQB310026  7 TQB817002-1  8 TQD67180631A  9 VQA0053  10 TQE616		